

## SECTION D

### Scheme of Examination

The tests as indicated in the Scheme of Examination detailed below may be computer based or otherwise. For Computer based tests, the candidates will be required to mark/type their responses including that for the descriptive papers on the computer.

**1. Scheme of Examination for direct recruitment to the post of MEDICAL OFFICER (Post Code: P1001)**

The following shall be the scheme of Examination, components of written test and its syllabus etc. for recruitment to the posts **Medical Officer**:

**I. Scheme of Examination:**

|   |                    |   |
|---|--------------------|---|
| <b>Part – I</b><br>Computer Based Examination in two papers ( <b>Paper I and Paper II</b> ) | Time: 2 hours each | Max. marks allowed:<br>500 marks (250 marks each) |
| <b>Part-II</b><br>Personality Test  |                    | Max. marks allowed:<br>100 marks                  |
| <b>Total Marks</b>  |                    | <b>600 marks</b>                                  |

**II. Syllabus:**

**(A) Part I**

**Computer based Examination:** The components and syllabi of two Papers and the weightage to different components in the two papers are given below: -

**Paper I Maximum Marks: 250 General Medicine and Paediatrics:**

**Total questions in Paper I = 125 (100 from General Medicine and 25 from Paediatrics);**

**Syllabus of Paper-I**

**(a) General Medicine including the following:**

- (i) Cardiology
- (ii) Respiratory diseases
- (iii) Gastro-intestinal
- (iv) Genito-Urinary
- (v) Neurology
- (vi) Hematology
- (vii) Endocrinology
- (viii) Metabolic disorders
- (ix) Infections/Communicable Diseases
  - a) Virus
  - b) Ricketts
  - c) Bacterial
  - d) Spirochetal
  - e) Protozoan
  - f) Metazoan
  - g) Fungus
- (x) Nutrition/Growth

- (xi) Diseases of the skin (Dermatology)
- (xii) Musculoskeletal System
- (xiii) Psychiatry
- (xiv) General
- (xv) Emergency Medicine
- (xvi) Common Poisoning
- (xvii) Snake bite
- (xviii) Tropical Medicine
- (xix) Critical Care Medicine
- (xx) Emphasis on medical procedures 12
- (xxi) Patho physiological basis of diseases
- (xxii) Vaccines preventable diseases and Non vaccines preventable diseases
- (xxiii) Vitamin deficiency diseases
- (xxiv) In psychiatry include – Depression, psychosis, anxiety, bipolar diseases and Schizophrenia.

**(b) Paediatrics including the following:-**

- (i) Common childhood emergencies,
- (ii) Basic new born care,
- (iii) Normal developmental milestones,
- (iv) Accidents and poisonings in children,
- (v) Birth defects and counseling including autism,
- (vi) Immunization in children,
- (vii) Recognizing children with special needs and management, and
- (viii) National programs related to child health.

**Paper II Maximum Marks: 250**

- (a) **Surgery**
- (b) **Gynaecology & Obstetrics**
- (c) **Preventive & Social Medicine**

**Total questions in Paper II = 125 (40 questions each from the sections on Surgery and Gynaecology & Obstetrics and 45 questions form the section on Preventive & Social Medicine.)**

**Syllabus of Paper - II**

- (a) **Surgery (Surgery including ENT, Ophthalmology, Traumatology and Orthopaedics)**
  - (I) General Surgery
    - i) Wounds
    - ii) Infections
    - iii) Tumours
    - iv) Lymphatic
    - v) Blood vessels
    - vi) Cysts/sinuses
    - vii) Head and neck
    - viii) Breast
    - ix) Alimentary tract
      - a) Oesophagus
      - b) Stomach
      - c) Intestines
      - d) Anus

- e) Developmental
- x) Liver, Bile, Pancreas
- xi) Spleen
- xii) Peritoneum
- xiii) Abdominal wall
- xiv) Abdominal injuries

- (II) Urological Surgery
- (III) Neuro Surgery
- (IV) Otorhinolaryngology E.N.T.
- (V) Thoracic surgery
- (VI) Orthopedic surgery
- (VII) Ophthalmology
- (VIII) Anesthesiology
- (IX) Traumatology
- (X) Diagnosis and management of common surgical ailments
- (XI) Pre-operative and post operative care of surgical patients
- (XII) Medicolegal and ethical issues of surgery
- (XIII) Wound healing
- (XIV) Fluid and electrolyte management in surgery
- (XV) Shock patho-physiology and management.

**(b) GYNAECOLOGY & OBSTETRICS**

**(I) OBSTETRICS**

- i) Ante-natal conditions
- ii) Intra-natal conditions
- iii) Post-natal conditions
- iv) Management of normal labours or complicated labour

**(II) GYNAECOLOGY**

- i) Questions on applied anatomy
- ii) Questions on applied physiology of menstruation and fertilization
- iii) Questions on infections in genital tract
- iv) Questions on neoplasma in the genital tract
- v) Questions on displacement of the uterus
- vi) Normal delivery and safe delivery practices
- vii) High risk pregnancy and management
- viii) Abortions
- ix) Intra Uterine growth retardation
- x) Medicolegal examination in obgy and Gynae including Rape.

**(III) FAMILY PLANNING**

- i) Conventional contraceptives
- ii) U.D. and oral pills
- iii) Operative procedure, sterilization and organization of programs in the urban and rural surroundings
- iv) Medical Termination of Pregnancy

**(c) PREVENTIVE SOCIAL AND COMMUNITY MEDICINE**

- I Social and Community Medicine
- II Concept of Health, Disease and Preventive Medicine
- III Health Administration and Planning

- IV General Epidemiology
- V Demography and Health Statistics
- VI Communicable Diseases
- VII Environmental Health
- VIII Nutrition and Health
- IX Non-communicable diseases
- X Occupational Health
- XI Genetics and Health
- XII International Health
- XIII Medical Sociology and Health Education
- XIV Maternal and Child Health
- XV National Programs
- XVI Management of common health problems
- XVII Ability to monitor national health programs
- XVIII Knowledge of maternal and child wellness
- XIX Ability to recognize, investigate, report, plan and manage community health problems including malnutrition and emergencies.

**(B) Part II**

**PERSONALITY TEST – (100 marks):**

Candidates who qualify in the written examination will be called for Interview/ Personality Test. The Interview/ Personality Test will carry 100 marks. The Interview for Personality Test will be intended to serve as a supplement to the examination for testing the General Knowledge and ability of the candidates in the fields of their academic study and also in the nature of a personality test to assess the candidate's intellectual curiosity, critical powers of assimilation, balance of judgement and alertness of mind, ability for social cohesion, integrity of character, initiative and capability for leadership.

**Manner and mode for drawing final merit list:**

1. The minimum qualifying marks for Part I, i.e., Paper I and Paper II taken separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for interview.
2. There shall be negative marking for wrong answers in Part I, i.e., Paper I and Paper II, to the tune of 1/4<sup>th</sup> of marks allocated per question.
3. The question paper shall be in English language only.
4. Final Merit list shall be drawn only for candidates who qualify both the Papers I and II and Personality Test/Interview separately. The Merit list shall be drawn on the basis of combined scores of both the papers and interview. However, the candidate must score at least 50% in Personality Test/Interview.
5. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**2. Scheme of Examination for direct recruitment to the post of ASSISTANT REGISTRAR (Post Code: P1002)**

The following shall be the scheme of examination, components of written test, personality test and its syllabus for recruitment to the post of **Assistant Registrar** by direct recruitment:

**I. Scheme of the Examination:**

| Written Test                           |                |                                  | Interview/<br>Personality Test  |
|--|----------------|----------------------------------|---------------------------------|
| MCQ Type<br>(150 questions)<br>Paper I | Time:2 hours*  | Max. marks allowed:<br>150 marks | Max. marks<br>allowed:150 marks |
| Descriptive<br>Type<br>Paper II        | Time: 2 hours* | Max. marks<br>Allowed: 150 marks |                                 |
| <b>Total Marks (150 + 150 + 150)</b>   |                |                                  | <b>450 marks</b>                |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**II. Components of Written Test:**

| COMPONENTS   |   | Duration: 2 hours each |            |
|--------------|---|------------------------|------------|
|              |   | NO. OF<br>QUESTIONS    | MARKS      |
| Paper I      | Test of General Studies                   | 150                    | 150        |
| Paper II     | Educational Administration and Management | –                      | 150        |
| <b>TOTAL</b> |   |                        | <b>300</b> |

**III. Syllabus:**

**Paper I: Test of General Studies (MCQ Type)**

Questions will be designed to test the ability of the candidate’s **General Studies** viz., General Science, current events of national and international importance, History of India and Indian National Movement, Indian and World Geography, Indian Polity & Economy, General Mental Ability.

Questions on **General Science** will cover general appreciation and understanding of science including matters of everyday observation and experience, as may be expected of a well-educated person who has not made a special study of any particular scientific discipline.

In **Current Events**, knowledge of significant national and international events will be tested.

In **History of India**, emphasis will be on broad general understanding of the subject in its social, economic and political aspects.

Questions on the **Indian National Movement** will relate to the nature and character of the nineteenth century resurgence, growth of nationalism and attainment of Independence.

In **Geography**, emphasis will be on Geography of India. Questions on the Geography of India will relate to physical, social and economic Geography of the country, including the main features of Indian agricultural and natural resources.

Questions on **Indian Polity and Economy** will test knowledge of the country's political system and Constitution of India, Panchayati Raj, Social systems and economic developments in India.

On **General Mental Ability**, the candidates will be tested on reasoning and analytical abilities.

#### **Paper II: Educational Administration and Management (Descriptive Type)**

The questions will be designed to test the ability of the candidate's knowledge and awareness on higher education system in India, its regulatory bodies and recent developments in the field, basic concepts and principles of Public Administration including Organization, Hierarchy, Unity of command, Span of control, Authority and Responsibility, Co-ordination, Centralization and Decentralization, Delegation, Supervision, Line and Staff.

Personnel Administration including recruitment, training, promotion, pay scale and service conditions, Union-Management Relationship.

Financial Administration including budget, formulation and execution of budget.

Application of Information Communication Technology (ICT) and other modern technologies in the University system.

#### **IV. Personality Test/Interview:**

The interview/personality test shall be conducted in such a manner that the candidates' suitability for the post is probed among other things, through academic qualifications, relevant experience, extra-curricular activities, general awareness/knowledge, communication and problem solving skills and overall personality etc.

#### **Manner and mode for drawing final merit list:**

1. The question paper would be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination, which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list

would be restricted to 30 times the advertised posts for shortlisting the candidates for Interview.

4. Answer script of Paper-II of a candidate would be evaluated, only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Final Merit list shall be drawn only for candidates who qualify both the Papers I and II and Personality Test/Interview separately. The Merit list shall be drawn on the basis of combined scores of both the papers and interview. However, the candidate must score at least 50% in Personality Test/Interview.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**3. Scheme of Examination for direct recruitment to the post of PRIVATE SECRETARY (Post Code: P0701), SECURITY OFFICER (Post Code: P0702), YOGA ORGANIZER (Post Code: P0703), SENIOR PERSONAL ASSISTANT (Post Code: P0704), NURSE (Post Code: P0600), ASSISTANT MANAGER (GUEST HOUSE) (Post Code: P0601), ASSISTANT SECURITY OFFICER (Post Code: P0604), HINDI TRANSLATOR (Post Code: P0606), PERSONAL ASSISTANT (Post Code: P0607), SOCIAL WORKER (Post Code: P0609), PHYSIOTHERAPIST (Post Code: P0610), X-RAY TECHNICIAN (Post Code: P0611), HORTICULTURIST (Post Code: P0612)**

**A. Scheme of the Examination:**

|                    | Type of Examination  | Time:             | Max. marks:   |
|--------------------|--|-------------------|---|
| <b>Paper-I</b>     | MCQ Type   | 2 hours*          | 300 marks<br>(150 questions)  |
| <b>Paper-II</b>    | Descriptive Type   | 3 hours*          | 200 marks   |
| <b>Skill Test</b>  | Skills pertaining to subject matter of the concerned post would be assessed. (The manner in which the skills are to be assessed may be determined by the examiner/ group of examiners appointed for the purpose) | Time:<br>1/2 hrs. | The test will be of 50 marks. To qualify the candidate should obtain 25 marks. This will however be only be qualifying in nature. |
| <b>Total Marks</b> |  |                   | <b>500</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**B. Test components:**

| Paper-I | TEST COMPONENTS   | DURATION: 2 hours |            |
|---------|---|-------------------|------------|
|         |   | NO. OF QUESTIONS  | MARKS      |
| (i)     | Questions pertaining to specific area of the post concerned | 50                | 100        |
| (ii)    | General Awareness   | 25                | 50         |
| (iii)   | Reasoning Ability   | 25                | 50         |
| (iv)    | Mathematical Ability  | 25                | 50         |
| (v)     | Test of Language English or Hindi                           | 25                | 50         |
|         | <b>TOTAL</b>  | <b>150</b>        | <b>300</b> |

| Paper-II | TEST COMPONENTS  | DURATION: 3 hours |  |
|----------|------------------|-------------------|--|
|          |                  | MARKS             |  |
|          | Descriptive Type | 200               |  |
|          | <b>TOTAL</b>     | <b>200</b>        |  |

**C. Syllabus:**

**Paper - I:**

- (i) **Questions pertaining to specific area of the post concerned:** The questions will pertain to the specific area/skill of the post concerned. For instance for the post of Assistant Manager, questions will be asked from Hotel Management, for Legal Assistant – questions on Law, for Engineer – questions on Engineering etc.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate’s General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of English/Hindi:**

In addition to the testing of candidate’s understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.



## **Paper - II:**

**Descriptive Type:** The questions will be designed to test the ability of the candidate's knowledge and awareness on higher education system in India, its regulatory bodies and recent developments in the field and on the following subjects:

| <b>Topic</b>   | <b>Marks allocated</b>   |
|--|--|
| Basic knowledge pertaining to functional, procedural aspect of the work profile of the post concerned. | 100 marks (10 questions x 10 marks)<br>Each question to be answered in 100 words |
| Situation Test analysis, where the candidates reaction would be sought on a given situation test case  | 25 marks (200 words)   |
| Knowledge of Computers with special reference to knowledge of word processing, data analysis packages  | 25 marks   |
| Essay  | 50 marks (500 words)   |

### **D. Skill Test:**

The skill test shall be qualifying in nature and no additional credits for the same shall be allocated.

### **Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**4. Scheme of Examination for direct recruitment for the post of SENIOR TECHNICAL ASSISTANT (DEPARTMENTS) (Post Code: P0613)**

The following shall be the scheme of examination, components of written test and its syllabus for the post of **SENIOR TECHNICAL ASSISTANT**

**A. Scheme of Examination:**

|  |                  |  |
|--|------------------|--|
| <b>Paper -I (MCQ)</b><br>Test of General Science and awareness<br>(Level-Post graduate)  | Time:<br>2 hrs.* | Max. Marks:<br>300 marks<br>(150 questions)  |
| <b>Paper – II</b><br>Subject specific laboratory based practical questions   | Time:3 hrs.*     | Max. Marks:<br>150 marks   |
| <b>Skill Test</b><br>Skills pertaining to subject matter of the concerned post would be assessed through a skill test to be conducted by the concerned department under the direct supervision of HOD/Dean of concerned Faculty.<br>The skill test shall be conducted in a manner which will elicit the ability of the candidate in handling various scientific/ humanities experiments/tests, as the case may be in a typical laboratory setup of the concerned department. This skill test is aimed to check the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to various hazards, precautions etc. | Time: 1 hr.      | The test will be of 50 marks. To qualify, the candidate should obtain 30 marks.<br>This will, however, be only qualifying in nature. |
| <b>Total Marks (300+150)</b>   |                  | <b>450 marks</b>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| <b>Paper – I</b> | <b>TEST COMPONENTS</b>            | <b>DURATION: 2 hours</b> |              |
|------------------|-----------------------------------|--------------------------|--------------|
|                  |                                   | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)              | General science                   | 60                       | 120          |
| (ii)             | General awareness                 | 20                       | 40           |
| (iii)            | Reasoning ability                 | 20                       | 40           |
| (iv)             | Mathematical ability              | 30                       | 60           |
| (v)              | Test of Language English or Hindi | 20                       | 40           |
| <b>TOTAL</b>     |                                   | <b>150</b>               | <b>300</b>   |

**B. Detailed Syllabus for Paper I:**

- (i) **General science:** Questions will be designed to test the knowledge of science, laboratory equipment and lab practice. The questions may be from all the spheres of science, however, emphasis would be on the field of science pertaining to the department for which the candidate is being assessed. In case of appointment in departments under the Faculty of Arts/Social Sciences/Mathematical Sciences questions pertaining to the subject matter of the concerned department may also be included.

For Senior Technical Assistant (Computer) the questions may be based on computer science and computer applications.

- (ii) **General awareness:** Questions will be designed to test the ability of the candidate’s General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:**  
In addition to the testing of candidate’s understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

C. **Paper - II:** Subject specific laboratory based practical questions.  
The paper will cover the following areas:

| Topic  | Marks allocated  |
|--|--|
| <ul style="list-style-type: none"> <li>• Subject specific laboratory based practical questions</li> <li>• Knowledge of Computers with special reference to knowledge of word processing, data analysis packages</li> </ul> | <b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |

D. **Skill Test:**

The skill test shall be qualifying in nature and no additional credits for the same shall be allocated. This skill test is aimed to check the practical knowledge of the candidate in terms of various Do’s and Don’ts in a laboratory related to various hazards, precautions etc.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of examination/degree/diploma which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in MCQ based questions to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**5. Scheme of Examination for Direct Recruitment to the post of JUNIOR ENGINEER (CIVIL)(Post Code: P0602)**

The following shall be the scheme of Examination, components of written test and its syllabus etc. for recruitment to the post of **Junior Engineer (Civil)** by the direct recruitment:

**A. Scheme of the Examination:**

| <b>Written Test</b>  |                |                                  |
|--|----------------|----------------------------------|
| Paper – I<br>MCQ Type<br>(Questions will be of Diploma or equivalent level)        | Time: 1 hours* | Max. marks allowed:<br>100 marks |
| Paper-II<br>Descriptive Type<br>(Questions will be of Diploma or equivalent level) | Time: 2 hours* | Max. marks Allowed: 100 marks    |
| <b>Total Marks</b>   |                | <b>200 marks</b>                 |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

**1. Surveying**

Fundamental concepts: Classification of Surveys; Chain Surveying; Compass Surveying; Levelling and Contouring; Theodolite Surveying; Tachometry; Curves; Introduction and fundamental concepts of electronic measuring instruments – EDM, Total Station, GIS &GPS

**2. Construction materials &Practice**

Properties and uses of construction materials – Stones, Bricks, tiles, Sand, Cement, Timber, Plastics, Glass, Asbestos, Paints, Distempers, Enamels and Varnishes; Preparation of Cement Mortar For various works

Classification of Buildings as per NBC, Site investigation for foundation as per NBC – Trial Pit and auger boring, classification of foundations, construction of spread footing and well foundation; Stone and Brick masonry types and principles of construction; Doors and Windows – types fittings and fastenings, types and functions of Lintels, Sunshades and Roofs, Flooring – Construction and types of material; Types of Stairs; Scaffolding; Types of Plastering, Pointing painting and white / Colour Wash.

**3. Engineering Mechanics and Strength of materials**

Forces- types of forces, Parallelogram, Triangle and Polygon Law of Forces, Lami's theorem; Centre of Gravity and moment of Inertia; Simple stresses and strains, Hooke's law –stress strain diagram, working strength elastic constants, Poisson's ratio, Relationship between elastic constants, compound rods, temperature stresses, strain energy, proof resilience, impact loading; Shear force and bending moment diagrams for simply supported, over hanging and cantilever beams, relation between intensity of loading, Shear force and bending moment; Theory of simple bending, modulus of section, moment of resistance, distribution of shear stress in rectangular, circular and I- Sections ; Deflection in cantilever and simply supported beams subjected to simple loading; columns and struts - Euler's and Rankine's formulae, Slenderness ratio, simple built-up columns; Analysis of dam and retaining walls; Simple plane and pin-jointed trusses, Stresses by method of joints and method of sections.

**4. Hydraulics**

Properties of fluids, fluid pressure and its measurement; Types of flows, energies in fluid motion, Bernoulli's theorem and its applications – venture metre, pitot tube; Orifice and mouthpiece; Notches and weirs; Flow through pipes, hydraulic gradient line and total energy line, laminar and turbulent flow in pipes – Reynolds number, measurement of velocity; open channels; Water turbines - classification, centrifugal and reciprocating pumps; layout of hydroelectric power plant.

**5. Quantity Surveying**

Abstract estimate, detailed estimate – centerline and long & short wall method, various items of Civil Engineering works as per Indian Standards; General Specifications – earth work, brick / stone masonry in cement mortar, RCC, plastering in cement mortar, Floor finishes with ceramic tiles and marbles, white washing. Colour washing; Standard schedule of rates, lead and lift preparation of lead statement; Computation of earth work – Mid-ordinate, mean Sectional area, Trapezoidal method, Prismoidal Rule; Approximate estimate-Plinth area and cubic rate estimate.

**6. Design of Structures (RCC and Steel)**

RCC structures: Design philosophies- principles and concepts of working stress method

and limit state method, loads and permissible stresses, IS specification, analysis and design-rectangular beam, slab, T-beam, column, footing and stair case.

Steel Structures: Properties of steel section, loads and permissible stresses, IS specifications, Analysis and design- welded joints, beam, column, base tension member; Design of roof truss.

### 7. **Irrigation Engineering**

Definition, Duty, delta, base period, rainfall and its measurement, factors affecting runoff methods of computing maximum flood discharge; Classification of head works, component parts of a weir and barrage, factors influencing selection of site –reservoirs and dams; Classification of canals, canal lining, cross drainage works; Soil erosion, water logging, soil water plant relationship; Necessity of irrigation - advantages and disadvantages, irrigation methods.

### 8. **Environmental Engineering**

Basics of ecosystem, water supply scheme; Sources of water; Conveyance of water – pipes, joints and laying; Testing of water, drinking water standards; Treatment of water, Distribution of water; Water supply connection to a building.

Quantity of sewage, surface drains, design of sewers running half full, limiting velocities; laying of sewers, sewage, sewer appurtenances; Collection of sewage samples, characteristics of domestic and industrial sewage-BOD, COD; Sewage treatment, septic tank & soak pit, sewage disposal-dilution and sewage farming; House drainage arrangements in buildings; solid waste-collection and disposal; Air Pollution-sources, effects and controlling methods.

### 9. **Transportation Engineering**

Alignment of roads-plain and hilly terrain, surveys; Cross section of road structure, width of pavement, Chamber, Gradient, Super elevation, Transition curves, horizontal and vertical alignment; Pavement making, traffic signs, traffic islands.

Types of soil, classification of soil-Textural IS Classification, physical properties-plasticity, cohesion, consolidation, compaction, permeability, compressibility, soil moisture content, specific gravity, density; Bearing capacity of soil

#### **Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
2. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
3. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
4. The question paper shall be in English but the applicant will have the option to respond either in English or Hindi. However, the same medium of language must be used throughout.

5. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, if any, separately. The Merit list shall be drawn on the basis of combined scores of the two papers.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**6. Scheme of Examination for Direct Recruitment to the post of JUNIOR ENGINEER (ELECTRICAL)(Post Code: P0603)**

The following shall be the scheme of Examination, components of written test and its syllabus etc. for recruitment to the post of **Junior Engineer (Electrical)** by the direct recruitment:

**A. Scheme of the Examination:**

| <b>Written Test</b>  |                   |                                  |
|--|-------------------|----------------------------------|
| Paper – I<br>MCQ Type<br>(Questions will be of Diploma or equivalent level)        | Time: 1<br>hours* | Max. marks allowed:<br>100 marks |
| Paper-II<br>Descriptive Type<br>(Questions will be of Diploma or equivalent level) | Time: 2<br>hours* | Max. marks<br>Allowed: 100 marks |
| <b>Total Marks</b>   |                   | <b>200 marks</b>                 |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

1. **Electrical Circuits**  
KVL, KCL, node and mesh analysis, star/delta transformation, electromagnetic induction, mutual induction, ac fundamentals, transient response of dc and ac networks, sinusoidal steady state analysis, resonance ideal current and voltage sources, Network theorems, two-port networks, three phase circuits, power measurement in 3-phase circuits.
2. **Electrical Measurements**  
Bridges and potentiometers, PMMC, moving coil, moving iron, dynamometer, induction type measuring instruments, measurement of voltage, current, power, energy, power factor, digital volt-meters, phase, frequency measurements, Q-meters, oscilloscopes
3. **Control Systems**  
Principles of feedback control systems, transfer function, block diagram reduction, signal flow graph, Mason's, gain formula, time response, steady state error, Routh, Nyquist criterion, Bode plot, root locus, compensation design
4. **Analog and digital electronics**  
Characteristics of p-n diode, Zener diode, BJT, FET, amplifiers, biasing, low frequency and high frequency equivalent circuits, frequency response, feedback amplifiers,

oscillators, combinational and sequential logic circuits, multiplexer, Schmitt trigger, A/D, D/A converters, basic of 8-bit, 16 bit microprocessors, architecture, programming, interfacing

**5. Electrical Machines**

Single phase transformer, equivalent circuit, phasor diagram, tests, regulation, efficiency, 3-phase transformers, connections, parallel operation, auto transformer, DC machines: types, armature windings, characteristics of dc generators and motors, armature reaction, commutation, starting and speed control of dc motors

3-phase induction motors: principle of operation, types of characteristics, computation of performance, equivalent circuit, starting and speed control

Single phase induction motors: types, methods of starting, characteristics

Synchronous Machines: emf equation, armature reaction, equivalent circuit, regulation, parallel operation, load sharing, operation with infinite busbars, synchronous motor, synchronous condenser, V and Inverted V curves

**6. Power Systems**

Basic power generation concepts, transmission line models and performance, Underground cables, string insulators, corona, distribution systems, per unit quantities, bus impedance and admittance matrices, load flow studies, voltage control, power factor correction, economic operation, symmetrical components, fault analysis, principles of over current, differential, and distance protection, protection of alternators, protection of transformers, protection of transmission lines, protection from lightning, neutral grounding, circuit breakers, types and operation of CBs, system stability concept, swing curves, equal area criterion

**7. Utilization**

Electric heating, resistance heating, induction heating, dielectric heating, Electric traction, lighting calculation, types of lamps and their working

**8. Power Electronics and Drives**

SCR, IGBT, MOSFET, Static and dynamic characteristics, triggering circuits, phase control rectifier, bridge rectifiers, principles of dc-dc converters, inverters, basic principles and characteristics of adjustable speed dc and ac drives

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
2. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
3. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.



4. The question paper shall be in English but the applicant will have the option to respond either in English or Hindi. However, the same medium of language must be used throughout.
5. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, if any, separately. The Merit list shall be drawn on the basis of combined scores of the two papers.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**7. Scheme of Examination for direct recruitment to the post of SENIOR ASSISTANT (Post Code: P0605)**

The following shall be the Scheme of Examination, components of written test and its syllabus for recruitment to the post of **Senior Assistant** by direct recruitment:

**A. Scheme of the Examination:**

| <b>Written Test</b>          |                |  |
|------------------------------|----------------|--|
| Paper – I<br>MCQ Type        | Time: 2 hours* | Max. marks:<br>300 marks (150 questions) |
| Paper-II<br>Descriptive Type | Time: 3 hours* | Max. marks:<br>200 marks                 |
| <b>Total Marks</b>           |                | <b>500 marks</b>                         |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**B. Test components:**

| <b>Paper-I</b> | <b>TEST COMPONENTS</b>            | <b>DURATION: 2 hours</b> |              |
|----------------|-----------------------------------|--------------------------|--------------|
|                |                                   | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)            | General awareness                 | 30                       | 60           |
| (ii)           | Reasoning ability                 | 40                       | 80           |
| (iii)          | Mathematical ability              | 40                       | 80           |
| (iv)           | Test of Language English or Hindi | 40                       | 80           |
| <b>TOTAL</b>   |                                   | <b>150</b>               | <b>300</b>   |

| <b>Paper-II</b> | <b>TEST COMPONENTS</b> | <b>DURATION: 3hours</b> |     |
|-----------------|------------------------|-------------------------|-----|
|                 |                        | <b>MARKS</b>            |     |
|                 |                        | Descriptive Type        | 200 |
| <b>TOTAL</b>    |                        | <b>200</b>              |     |

**C. Syllabus:**

**Paper - I:**

- (i) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and its neighbouring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (ii) **Reasoning Ability:** The syllabus includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iii) **Mathematical Ability:** The test will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (iv) **Test of English or Hindi:**  
In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**Paper - II:**

**Descriptive Type:** The questions will be designed to test the ability of the candidate's knowledge and awareness about the subjects detailed below:

| Topic   | Marks allocated   |
|---|---|
| Basic knowledge of the Constitution of India and working of its political system                      | 30 marks (3 questions x 10 marks) Each question to be answered in 100 words |
| Basic knowledge of the administration in institutions of Higher Education                             | 20 marks (2 questions x 10 marks) Each question to be answered in 100 words |
| Knowledge and application of Office Procedures, Rules & Regulations                                   | 30 marks (3 questions x 10 marks) Each question to be answered in 100 words |
| English/Hindi with special reference to skill in noting/drafting                                      | 20 marks (2 questions x 10 marks) Each question to be answered in 100 words |
| Situation Test essay, where the candidates reaction would be sought on a given situation test case    | 25 marks (200 words)  |
| Knowledge of Computers with special reference to knowledge of word processing, data analysis packages | 25 marks  |
| Essay   | 50 marks (500 words)  |

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper would be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination, which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
4. Answer script of Paper-II of a candidate would be evaluated, only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify both the Papers I and II separately. The Merit list shall be drawn on the basis of combined scores of both the papers.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**8. Scheme of Examination for direct recruitment to the post of Professional Assistant (Post Code: P0608)**

The following shall be the scheme of examination, components of written test and its syllabus for recruitment to the post of Professional Assistant by direct recruitment:

**A. Scheme of the Examination:**

|  |               |   |
|--|---------------|---|
| <b>Paper -I (MCQ)</b><br>Library Aptitude, General Awareness etc.<br>(150 questions) | Time: 2 hrs.* | Max. Marks:<br>300 marks<br>(150 questions) |
| <b>Paper – II</b><br>Library System etc.   | Time: 3 hrs.* | Max. Marks:<br>150 marks                    |

|   |                     |   |
|---|---------------------|---|
| <p><b>Skill Test</b><br/>Skills pertaining to subject matter of the concerned post would be assessed through a skill test to be conducted by the concerned department/institution under the direct supervision of University Librarian.</p> <p>The skill test shall be conducted in a manner to check the practical knowledge of the candidate in handling various processes associated with Library's functioning.</p> | <p>Time: 1 hrs.</p> | <p>The test will be of 50 marks. To qualify the candidate should obtain 25 marks. This will however be only qualifying in nature.</p> |
| <p><b>Total Marks (300+150)</b></p>   |                     | <p><b>450 marks</b></p>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| Paper – I | TEST COMPONENTS                   | DURATION: 2 hours |            |
|-----------|-----------------------------------|-------------------|------------|
|           |                                   | NO. OF QUESTIONS  | MARKS      |
| (i)       | Library Aptitude                  | 50                | 100        |
| (ii)      | General Awareness                 | 25                | 50         |
| (iii)     | Reasoning Ability                 | 25                | 50         |
| (iv)      | Mathematical Ability              | 25                | 50         |
| (v)       | Test of Language English or Hindi | 25                | 50         |
|           | <b>TOTAL</b>                      | <b>150</b>        | <b>300</b> |

**B. Detailed Syllabus for Paper I:**

- (i) **Library Aptitude:** Questions will be designed to test the knowledge and awareness on Library Information Science and recent development in the field of Library Science. The questions may be from all the spheres of library science.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time &

Distance, Tables & Graphs, etc.

(v) **Test of Language English or Test of Language Hindi:** In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

C. **Paper - II:** The questions will be designed to test the ability of the candidate's knowledge and awareness on Library and Information Science and recent development in the field and on the following subjects.

| <b>Topic</b>   | <b>Marks allocated</b>  |
|--|---|
| <ul style="list-style-type: none"> <li>• Knowledge and application of Library and Information Science Procedures, rules &amp; Regulations.</li> <li>• Knowledge of Computers with special reference to knowledge of Library Software Packages of Word Processing, Data Analysis Packages.</li> </ul> | <p><b>Section 1 - MCQ</b><br/>100 marks (50 questions)</p> <p><b>Section 2 – Descriptive</b><br/>50 marks (5 questions)</p> |

**D. Skill Test:**

The skill test shall be qualifying in nature and no additional credits for the same shall be allocated.

The skill test shall be conducted in a manner to check the practical knowledge of the candidate in handling various processes associated with Library's functioning.

The candidates may be tested for his/her skills in:

- Search in electronic data bases(online)
- Knowledge of specialized, open source application software for libraries like Digital Library Software etc.
- knowledge of any Indian/Foreign language as opted by the candidate from the list given below:  
Arabic, Persian, Urdu, Sindhi, Tamil, Telugu, Malyalam, Kannad, Odiya, Bengali, Assamese, Chinese, Japanese, Korean, French, German, Spanish and Russian.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.

4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, if any, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**9. Scheme of Examination for direct recruitment to the post of ASSISTANT ARCHIVIST (Post Code: P0501), SPORTS COACH (Post Code: P0502), PHARMACIST (Post Code: P0504), TECHNICAL ASSISTANT (HEALTH CENTRE) (Post Code: P0506), STATISTICAL ASSISTANT (Post Code: P0507)**

|   |                   |  |
|---|-------------------|--|
| <b>Objective Type (Paper I)</b><br>Multiple Choice Questions pertaining to the subject matter of the concerned post. The questions will be upto the level of Graduation.  | Time:<br>3 hrs.*  | Max. Marks:<br>300 marks (150 questions)   |
| <b>Skill Assessment</b><br>Skills pertaining to subject matter of the concerned post would be assessed. (The manner in which the skills are to be assessed may be determined by the examiner/ group of examiners appointed for the purpose) | Time:<br>1/2 hrs. | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br>This will however be only be qualifying in nature. |
| <b>Total Marks</b>  |                   | <b>300</b>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.

4. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I only.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**10. Scheme of Examination for direct recruitment to the post of SEMI PROFESSIONAL ASSISTANT(Post Code: P0503)**

The following shall be the scheme of Examination, components of written test and its syllabus etc. for recruitment to the post of Semi Professional Assistant by direct recruitment.

**A. Scheme of the Examination:**

| <b>Written Test</b>  |               |   |
|--|---------------|---|
| <b>Paper -I (MCQ)</b><br>Library Aptitude, General Awareness etc.<br>(150 questions) | Time: 2 hrs.* | Max. Marks:<br>300 marks<br>(150 questions) |
| <b>Paper – II</b><br>Library Operations etc.   | Time: 3 hrs.* | Max. Marks:<br>150 marks                    |
| <b>Total Marks (300+150)</b>   |               | <b>450 marks</b>                            |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| <b>Paper – I</b> | <b>TEST COMPONENTS</b>            | <b>DURATION: 2 hours</b> |              |
|------------------|-----------------------------------|--------------------------|--------------|
|                  |                                   | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)              | Library Aptitude                  | 50                       | 100          |
| (ii)             | General Awareness                 | 25                       | 50           |
| (iii)            | Reasoning Ability                 | 25                       | 50           |
| (iv)             | Mathematics Ability               | 25                       | 50           |
| (v)              | Test of Language English or Hindi | 25                       | 50           |
|                  | <b>TOTAL</b>                      | <b>150</b>               | <b>300</b>   |

**B. Detailed Syllabus for Paper I:**

- (i) **Library Aptitude:** Questions will be designed to test the knowledge and awareness on Library Information Science and recent development in the field of Library Science. The questions may be from all the spheres of library science.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society.

The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.

- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:** In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

- C. **Paper - II:** The questions will be designed to test the ability of the candidate's knowledge and awareness on Library and Information Science and recent development in the field and on the following subjects.

| Topic  | Marks allocated  |
|--|--|
| <ul style="list-style-type: none"> <li>• Knowledge and application of Library and Information Science Procedures, rules &amp; Regulations.</li> <li>• Knowledge of Computers with special reference to knowledge of Library Software Packages of Word Processing, Data Analysis Packages.</li> </ul> | <b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 - Descriptive</b><br>50 marks (5 questions) |

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.



5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I and Paper II, separately. The Merit list shall be drawn on the basis of combined scores of the two papers.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**11. Scheme of Examination for direct recruitment for the post of TECHNICAL ASSISTANT (DEPARTMENTS) (Post Code: P0508) and TECHNICAL ASSISTANT (COMPUTERS) (Post Code: P0505)**

The following shall be the scheme of examination, components of written test and its syllabus etc. for the post of **Technical Assistant**

**A. Scheme of Examination:**

| <b>Written Test</b>  |               |   |
|--|---------------|---|
| <b>Paper -I (MCQ)</b><br>Test of General Science and awareness<br>(Level-Post graduate)  | Time: 2 hrs.* | Max. Marks:300 marks<br>(150 questions)   |
| <b>Paper – II</b><br>Subject specific laboratory based practical questions   | Time: 3 hrs.* | Max. Marks: 150 marks   |
| <b>Skill Test</b><br>Skills pertaining to subject matter of the concerned post would be assessed through a skill test to be conducted by the concerned department under the direct supervision of HOD/Dean of concerned Faculty.<br>The skill test shall be conducted in a manner which will elicit the ability of the candidate in handling various scientific/ humanities experiments/tests, as the case may be in a typical laboratory setup of the concerned department. This skill test is aimed to check the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to various hazards, precautions etc. | Time:1 hr.    | The test will be of 50 marks. To qualify, the candidate should obtain 30 marks. This will, however, be only qualifying in nature. |
| <b>Total Marks (300+150)</b>   |               | <b>450 marks</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| Paper – I | TEST COMPONENTS                   | DURATION: 2 hours |            |
|-----------|-----------------------------------|-------------------|------------|
|           |                                   | NO. OF QUESTIONS  | MARKS      |
| (i)       | General Science                   | 60                | 120        |
| (ii)      | General Awareness                 | 20                | 40         |
| (iii)     | Reasoning Ability                 | 20                | 40         |
| (iv)      | Arithmetical & Numerical Ability  | 30                | 60         |
| (v)       | Test of Language English or Hindi | 20                | 40         |
|           | <b>TOTAL</b>                      | <b>150</b>        | <b>300</b> |

### B. Detailed Syllabus for Paper I:

- (i) **General Science:** Questions will be designed to test the knowledge of science, laboratory equipment and lab practice. The questions may be from all the spheres of science, however, emphasis would be on the field of science pertaining to the department for which the candidate is being assessed. In case of appointment in departments under the Faculty of Arts/Social Sciences/Mathematical Sciences questions pertaining to the subject matter of the concerned department may also be included.

**For Technical Assistant (Computer) the questions may be based on computer science and computer applications.**

- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and its neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:**  
In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**C. Paper - II:** Subject specific laboratory based practical questions.

| Topic  | Marks allocated  |
|--|--|
| <ul style="list-style-type: none"> <li>• Subject specific laboratory based practical questions</li> <li>• Knowledge of Computers with special reference to knowledge of word processing, data analysis packages</li> </ul> | <b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |

**D. Skill Test:**

The skill test shall be qualifying in nature and no additional credits for the same shall be allocated.

This skill test is aimed to check the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to various hazards, precautions etc.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. Answer script of Paper-II of a candidate would be evaluated only if, the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in MCQ based questions to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option (a) and (b) is exhausted, it will be decided through draw of lots.

**12. Scheme of Examination for direct recruitment to the post of SANITARY INSPECTOR(Post Code: P0401), STENOGRAPHER (Post Code: P0411), WORKS ASSISTANT (Post Code: P0412), ASSISTANT (STORE) (Post Code: P0413), SALESMAN, DHMI (Post Code: P0414)**

|   |                   |  |
|---|-------------------|--|
| <b>Objective Type (Paper I)</b><br>Multiple Choice Questions pertaining to the subject matter of the concerned post. The questions will be upto the level of 12 <sup>th</sup> Class/ Senior Secondary.                                      | Time:<br>3 hours* | Max. Marks:<br>300 marks (150 questions)   |
| <b>Skill Assessment</b><br>Skills pertaining to subject matter of the concerned post would be assessed. (The manner in which the skills are to be assessed may be determined by the examiner/ group of examiners appointed for the purpose) | Time:<br>1/2 hrs. | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br>This will however be only be qualifying in nature. |
| <b>Total Marks</b>  |                   | <b>300</b>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I only.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**13. Scheme of Examination for direct recruitment to the post of TABLA ACCOMPANISTS (Post Code: P0402) and PAKHAWAJ PLAYER (Post Code: P0403)**

| <b>Components of scheme of Examination</b> |                  |   |
|--|------------------|---|
| <b>Written Examination</b><br>(Paper I)    | Time: 1.5 hours* | Max. Marks allowed: 150 marks<br><b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |
| <b>Skill Assessment</b>                    | Time: 1/2 hrs.   | The test will be of 50 marks. To qualify the candidate should obtain 25 marks. This will however be only be qualifying in nature.               |
| <b>Total Marks (150)</b>                   |                  | <b>150</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

**Written Examination:**

1. Brief history of Gharanas of Tabla&Pakhawaj.
2. Brief history of Tabla&Pakhawaj.
3. Write the varnas (Bol) of Tabla&Pakhawaj.
4. Write in notation with Thah, Dugun&Chaugun of Jhaptal and Dhamar.
5. Write in notation of Kayada, Rela, Palta, Tihai and ChakradarTukra/ Param in Jhaptal/ Dhamar.
6. Write in notation with Thah, Dugun&Chaugun of Teental/ Chautal.
7. Brief introduction of RupakTala/ TivraTala.
8. Write in Notation with Thah, Dugun&Chaugun of Dadra and Keharva.
9. Write in notation of Kayada, Rela, Palta, Tihai and ChakradaTukra/ Paran in Teental/ Chautal.
10. Write an essay on Vocal and Instrumental Music.
11. Brief introduction of Ektala/Chautala.

**Skill Assessment:**

1. Demonstration of theka of Jhaptala / Dhamar in Thah, Dugun and Chaugun by the hand beats.
2. Basic Bols (varnas) of Tabla/ Pakhawaj.
3. Two advance Kayadas / Relas with Paltas & Tihai, two simple tukras / Parans, two chakradartukras / Paransin Jhaptala / Dhamar.
4. Theka of Teentala / Chautaal with Thah, Dugun, Chaugun and keep the theka by hand beats.
5. Playing knowledge of Ektala and Rupak in barabarkilaya / Chautala & Teevra.
6. Knowledge of four Kayadas / Relas, Paltas and Tihai, One Simple and Chakradar Tukra / Paran in Teentala / Chautaal.
7. One Kayada each of 'Tirkitataka' and 'Dhirkit' in Teentala/Chautaal.
8. Four variation in Keherwa and Dadra Tala.
9. Elementary knowledge of Keherwa and Dadra Talas/ Tivra&Sooltala.
10. Tuning of Tabla/Pakhawaj.
11. Basic knowledge of vocal and instrumental accompaniment.

12. Elementary knowledge of tuning of Tabla/ Pakhawaj.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will of the level of examination/degree/diploma which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be no negative marking for wrong answers.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

14. **Scheme of Examination for direct recruitment to the post of SARANGI ACCOMPANISTS (Post Code: P0404), VIOLIN ACCOMPANISTS (Post Code: P0405), TANPURA ACCOMPANISTS (Post Code: P0408),**

| <b>Components of scheme of Examination</b> |                  |   |
|--|------------------|---|
| <b>Written Examination</b><br>(Paper I)    | Time: 1.5 hours* | Max. Marks allowed: 150 marks<br><b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |
| <b>Skill Assessment</b>                    | Time: 1/2 hrs.   | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br>This will however be only be qualifying in nature.            |
| <b>Total Marks (150)</b>                   |                  | <b>150</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

**Written Examination:**

1. Basic knowledge of the structure and tuning of Tanpura/Sarang/Violin.
2. Knowledge of the notation systems laid down by Pt. Vishnu DigamberPaluskar and Pt. V.N. Bhatkhande.
3. Definition of Vadi, Samvadi, Anuvadi, Vivadi, Alap.
4. An outline of the history of Indian Music, origin and development of Dhrupad, Khyal&Thumri.
5. Definition of the following: Sangeet, Nada, Swara, Shuddha, Vikrit (Komal, Teevra), Saptak (Mandra, Madhya, Tara), Aaroaha, Avaroha, Raga, Laya, Tala, Sama, Tali, Khali, Matras, Avartana.
6. Description of the following Gharanas – Gwalior, Agra, Jaipur and KiranaGharanas.
7. Description of the Ragas prescribed in the course.
8. Notation writing of a ChhotaKhayal/ Drut Gat.

**Skill Assessment:**

1. Proficiency in any one of the following instruments:  
(i) Tanpura                      (ii) Sarangi                      (iii) Violin
2. Eight Tala-baddhaAlankaras set to different Chhandas.
3. Aaroaha, Avaroha, Pakad, VilambitKhayal&DrutKhayal, Vilambit&Drut gat in the following Ragas: Yaman, Bhairav, Bhupali with elaborations in few Todas.
4. The recitation of Thekas of Teen Taal, Keharwa, Dadra and Jhaptal, taal keeping with hand beats.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will of the level of examination/degree/diploma which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be no negative marking for wrong answers.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.

- b) In case of further bunching/bracketing of candidates, candidate senior in age.
- c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**15. Scheme of Examination for direct recruitment to the post of MRIDANGAM ACCOMPANISTS (Post Code: P0406)**

|   |                        |   |
|---|------------------------|---|
| <b>Written Examination</b><br>(Paper I) | Time:<br>1.5<br>hours* | Max. Marks allowed: 150 marks<br><b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |
| <b>Skill Assessment</b>                 | Time:<br>1/2 hrs.      | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br>This will however be only be qualifying in nature.            |
| <b>Total Marks (150)</b>                |                        | <b>150</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

**Written Examination:**

1. Technical terminology –Elementary knowledge of all important terms used in practical lessons taught in SEC I-Tattakaram, Chapu, Meettu, Toppi, Varu, Choru.
2. Understanding the concept of Tala, Laya, Gati
3. Understanding of different parts of the instrument.
4. Understanding of basic notation system.
5. Technical terminology – all terms used in the practical lessons taught in SEC II – Mohra, Pharan, Korvai, Arudi, Jaati, Gati.
6. SulaadiSaptaTalas with Jaatibhedas
7. Contribution of Palghat Mani Iyer&PalaniSubramanyaIyer.
8. Understanding of basic notation system.
9. Elementary knowledge of tuning of Mridangam.

**Skill Assessment:**

1. Basic technique of holding the instrument, sitting posture and fingering techniques.
2. Knowledge of syllables (Ta, Thi, Thom, Nam, Chapu, Din and Da) and their playing style.
3. Pathavarisaikal – Elementary exercises in three speeds- slow, medium, fast.
4. Thattakaram (Chollukkattu) and its importance in learning Mridangam.
5. Different places in producing the syllables of playing Mridangam such as chapu, Meetu, Toppi etc.
6. Understanding the concept of tala and Laya.
7. Understanding of different parts of the instrument.
8. Basic knowledge of Laya, Gati&SulaadiSaptaTalas with Jaatibhedas.
9. Elementary knowledge of tuning of Mridangam.
10. Acquaintance of playing Adi/ RupakaTalam.
11. Ability to play Paran, Mohra, Korvai, Arudi.
12. Contribution of Palghat Mani Iyer&PalaniSubramanyaIyer.



13. Understanding of basic notation system.
14. Ability to tune one's own instrument.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will of the level of examination/degree/diploma which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be no negative marking for wrong answers.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**16. Scheme of Examination for direct recruitment to the post of HARMONIUM ACCOMPANISTS (Post Code: P0407)**

| <b>Components of scheme of Examination</b> |                   |   |
|--|-------------------|---|
| <b>Written Examination</b><br>(Paper I)    | Time:<br>1.5 hrs* | Max. Marks allowed: 150 marks<br><b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |
| <b>Skill Assessment</b>                    | Time:<br>1/2 hrs. | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br>This will however be only be qualifying in nature.            |
| <b>Total Marks (150)</b>                   |                   | <b>150</b>  |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Syllabus for the above papers will be as follows:**

**Written Examination:**

1. Brief History of Harmonium.
2. Write ten advance Alankars.
3. Drawing sketch of Harmonium with its various parts.
4. Definition of That, Raga, Tala, Naad and its characteristics, Harmony and Melody.
5. Write ten Alankars with finger techniques.
6. Definition of Swar, Saptak, Vadi, Samvadi, Pakad.
7. Description of Ragas prescribed.
8. Write notation of a fast Gat/ Bandish in prescribed Ragas.
9. Notation of Talas with Dugun&Chaugun.

**Skill Assessment:**

1. Elementary Knowledge of Harmonium, its various parts and various types of Harmoniums and finger techniques.
2. Structural details of Harmonium.
3. Ability to play & write (10) ten Alankars of shuddha&vikritswaras.
4. Ability to write a notation of any fast composition in Bhatkhande's notation system.
5. 15 general alankars with finger techniques in above mentioned ragas.
6. Ability to play fast/Drut compositions with alaap and atleast 10 tanas in one of the following ragas:
  - a) AlhaiyaBilawal
  - b) Bihag
  - c) Malkauns
  - d) Yaman
  - e) Bhupali
  - f) Bhairav
7. Elementary knowledge of shuddha and vikritswaras, saptak, vadi, samvadi, pakad.
8. Ability to play a dhun in Raga Kafi or Khamaj.
9. Elementary knowledge of Chautala, Jhaptala, Dadra, Teentaal, Ektal&Keherwa.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will of the level of examination/degree/diploma which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be no negative marking for wrong answers.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:

- a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
- b) In case of further bunching/bracketing of candidates, candidate senior in age.
- c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**17. Scheme of Examination for direct recruitment to the post of LABORATORY ASSISTANT(Post Code: P0409)**

The following shall be the scheme of examination, components of written test and its syllabus for the post of **Laboratory Assistant**

**A. Scheme of Examination:**

| <b>Written Test</b>   |               |  |
|---|---------------|--|
| <b>Paper – I (MCQ)</b><br>General Science & Awareness<br>(150 questions)  | Time: 2 hrs.* | Max. Marks:<br>300 marks<br>(150 questions)  |
| <b>Paper – II</b><br>Subject specific laboratory based practical questions  | Time: 3 hrs.* | Max. Marks:<br>150 marks   |
| <b>Skill Test</b><br>Skills pertaining to subject matter of the concerned post would be assessed through a skill test to be conducted by the concerned department under the direct supervision of HOD/Dean of concerned Faculty.<br><br>The skill test shall be conducted in a manner which will elicit the ability of the candidate in handling various scientific/humanities experiments/tests, as the case may be in a typical laboratory setup of the concerned department. This skill test is aimed to check the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to various hazards, precautions etc. | Time: 1 hr.   | The test will be of 50 marks. To qualify the candidate should obtain 30 marks. This will, however, be only qualifying in nature. |
| <b>Total Marks (300+150)</b>  |               | <b>450 marks</b>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| Paper – I | TEST COMPONENTS                   | DURATION: 2 hours |            |
|-----------|-----------------------------------|-------------------|------------|
|           |                                   | NO. OF QUESTIONS  | MARKS      |
| (i)       | General Science                   | 60                | 120        |
| (ii)      | General Awareness                 | 20                | 40         |
| (iii)     | Reasoning Ability                 | 20                | 40         |
| (iv)      | Mathematical Ability              | 30                | 60         |
| (v)       | Test of Language English or Hindi | 20                | 40         |
|           | <b>TOTAL</b>                      | <b>150</b>        | <b>300</b> |

### B. Detailed Syllabus for Paper I:

- (i) **General Science:** Questions will be designed to test the knowledge of science, laboratory equipment and lab practice. The questions may be from all the spheres of science, however, emphasis would be on the field of science pertaining to the department for which the candidate is being assessed. In case of appointment in departments under the Faculty of Arts/Social Sciences/Mathematical Sciences questions pertaining to the subject matter of the concerned department may also be included.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:**  
In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**C. Paper - II:** Subject specific laboratory based practical questions.

The paper will cover the following areas:

| Topic  | Marks allocated  |
|--|--|
| <ul style="list-style-type: none"> <li>• Subject specific laboratory based practical questions</li> <li>• Knowledge of Computers with special reference to knowledge of word processing, data analysis packages</li> </ul> | <b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |

**D. Skill Test:**

The skill test shall be qualifying in nature and no additional credits for the same shall be allocated.

This skill test is aimed to check the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to various hazards, precautions etc.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in MCQ based questions to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**18. Scheme of Examination for direct recruitment to the post of ASSISTANT (Post Code: P0410)**

The following shall be the scheme of Examination, components of written test and its syllabus for recruitment to the post of **Assistant** by direct recruitment:

**A. Scheme of the Examination:**

| <b>Written Test</b> |                     |          |                           |
|---------------------|---------------------|----------|---------------------------|
|                     | Type of Examination | Time:    | Max. marks allowed:       |
| <b>Paper-I</b>      | MCQ Type            | 2 hours* | 300 marks (150 questions) |
| <b>Paper-II</b>     | Descriptive Type    | 2 hours* | 150                       |
| <b>Total Marks</b>  |                     |          | <b>450</b>                |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**B. Test components:**

| <b>Paper-I</b> | <b>TEST COMPONENTS</b>            | <b>DURATION: 2 hours</b> |              |
|----------------|-----------------------------------|--------------------------|--------------|
|                |                                   | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)            | General awareness                 | 30                       | 60           |
| (ii)           | Reasoning ability                 | 40                       | 80           |
| (iii)          | Mathematical ability              | 40                       | 80           |
| (iv)           | Test of Language English or Hindi | 40                       | 80           |
| <b>TOTAL</b>   |                                   | <b>150</b>               | <b>300</b>   |

| <b>Paper-II</b> | <b>TEST COMPONENTS</b> | <b>DURATION: 2 hours</b> |
|-----------------|------------------------|--------------------------|
|                 |                        | <b>MARKS</b>             |
|                 | Descriptive Type       | 150                      |
| <b>TOTAL</b>    |                        | <b>150</b>               |

**C. Syllabus:**

**Paper - I:**

- (i) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and its neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (ii) **Reasoning Ability:** The syllabus includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iii) **Mathematical Ability:** The test will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest,

Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.

**(iv) Test of English or Hindi:**

In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**Paper - II:**

**Descriptive Type:** The questions will be designed to test the ability of the candidate's knowledge and awareness about the subjects detailed below:

| <b>Topic</b>  | <b>Marks allocated</b>   |
|---|--|
| Basic knowledge of the Constitution of India and working of its political system                      | 30 marks (3 questions x 10 marks)<br>Each question to be answered in 100 words |
| Basic knowledge of the administration in institutions of Higher Education                             | 20 marks (2 questions x 10 marks)<br>Each question to be answered in 100 words |
| Knowledge and application of Office Procedures, Rules & Regulations                                   | 30 marks (3 questions x 10 marks)<br>Each question to be answered in 100 words |
| English/Hindi with special reference to skill in noting/drafting                                      | 20 marks (2 questions x 10 marks)<br>Each question to be answered in 100 words |
| Situation Test essay, where the candidate's reaction would be sought on a given situation test case   | 25 marks (200 words)   |
| Knowledge of Computers with special reference to knowledge of word processing, data analysis packages | 25 marks   |

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PWBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
4. Answer script of Paper-II of a candidate would be evaluated, only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify both the Paper I and Paper II separately. The Merit list shall be drawn on the basis of combined scores of the two papers.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum

- eligibility for the respective post will be given preference.
- b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
- c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**19. Scheme of Examination for direct recruitment to the post of LIBRARY ASSISTANT (Post Code: P0301)**

The following shall be the scheme of Examination, components of written test and its syllabus for recruitment to the post of Library Assistant by the direct recruitment:

**A. Scheme of Examination:**

| Written Test   |               |   |
|--|---------------|---|
| <b>Paper -I (MCQ)</b><br>Library Aptitude, General Awareness etc.<br>(150 questions) | Time: 2 hrs.* | Max. Marks:<br>300 marks<br>(150 questions) |
| <b>Paper – II</b><br>Library Automation & Library Awareness                          | Time: 3 hrs.* | Max. Marks:<br>150 marks                    |
| <b>Total Marks (300+150)</b>   |               | <b>450 marks</b>                            |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| Paper – I | TEST COMPONENTS                   | DURATION: 2 hours |            |
|-----------|-----------------------------------|-------------------|------------|
|           |                                   | NO. OF QUESTIONS  | MARKS      |
| (i)       | Library Aptitude                  | 50                | 100        |
| (ii)      | General Awareness                 | 25                | 50         |
| (iii)     | Reasoning Ability                 | 25                | 50         |
| (iv)      | Mathematical Ability              | 25                | 50         |
| (v)       | Test of Language English or Hindi | 25                | 50         |
|           | <b>TOTAL</b>                      | <b>150</b>        | <b>300</b> |

**B. Detailed Syllabus for Paper I:**

- (i) **Library Aptitude:** Questions will be designed to test the knowledge and awareness on Library Information Science and recent development in the field of Library Science. The questions may be from all the spheres of library science.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship,



concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.

- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:** In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**C. Paper - II: Library Automation & Library Awareness.**

The questions will be designed to test the ability of the candidate's knowledge and awareness on Library and Information Science and recent development in the field and on the following subjects.

| Topic  | Marks allocated  |
|--|--|
| <ul style="list-style-type: none"> <li>Knowledge and application of Library and Information Science Procedures, rules &amp; Regulations.</li> <li>Knowledge of Computers with special reference to knowledge of Library Software Packages of Word Processing, Data Analysis Packages.</li> </ul> | <b>Section 1 - MCQ</b><br>100 marks (50 questions)<br><b>Section 2 – Descriptive</b><br>50 marks (5 questions) |

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

- The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
- The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
- The minimum overall qualifying marks for Paper I and Paper II shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
- Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
- There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
- Merit list shall be drawn only for candidates who qualify Paper I and Paper II, separately. The Merit list shall be drawn on the basis of combined scores of the two papers.
- In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:

- a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
- b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
- c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**20. Scheme of Examination for direct recruitment to the post of JUNIOR ASSISTANT (Post Code: P0201) and JUNIOR ASSISTANT(STORE) (Post Code: P0203)**

The following shall be the scheme of Examination, components of written test and its syllabus for recruitment to the post of **Junior Assistant and equivalent** by direct recruitment:

**A. Scheme of the Examination:**

| <b>Written Test</b> |                            |          |                     |
|---------------------|----------------------------|----------|---------------------|
|                     | Type of Examination        | Time:*   | Max marks:          |
| <b>Paper-I</b>      | MCQ Type                   | 3 hours  | 200 (200 questions) |
| <b>Paper-II</b>     | Essay & Comprehension test | 1.5 hour | 100                 |
| <b>Total Marks</b>  |                            |          | <b>300</b>          |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**B. Test components:**

| <b>Paper-I</b> | <b>TEST COMPONENTS</b>    | <b>DURATION: 3 hours</b> |              |
|----------------|---------------------------|--------------------------|--------------|
|                |                           | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)            | General awareness         | 50                       | 50           |
| (ii)           | Reasoning ability         | 50                       | 50           |
| (iii)          | Mathematical ability      | 50                       | 50           |
| (iv)           | Language English or Hindi | 50                       | 50           |
| <b>TOTAL</b>   |                           | <b>200</b>               | <b>200</b>   |

| <b>Paper-II</b> | <b>TEST COMPONENTS</b>                | <b>DURATION: 1.5 hour</b> |
|-----------------|---------------------------------------|---------------------------|
|                 |                                       | <b>MARKS</b>              |
|                 | Essay, comprehension & letter writing | 100                       |
| <b>TOTAL</b>    |                                       | <b>100</b>                |

| <b>SKILL TEST</b> | <b>TEST COMPONENTS</b> | <b>DETAILS</b>   |
|-------------------|------------------------|--|
|                   | On spot typing test    | Qualifying speed shall be at least 35 words per minute in English or 30 words per minute in Hindi, which will be tested on a computer (PC).* |

\*PwBD candidates for whom complete exemption for type test is provided as per guidelines issued by Central Government, will be exempt from the skill test.

## C. Syllabus:

### Paper I:

- (i) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (ii) **Reasoning Ability:** The syllabus includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iii) **Mathematical Ability:** The test will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (iv) **Test of English or Hindi:**  
In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

### Paper – II:

**Essay, comprehension & letter writing:** This test is meant for testing the applicability and correct usage of the language, where the candidates would be assessed through essay writing, comprehension and letter writing, situation test analysis etc.

### Skill Test:

The typing test shall be a skill test, which shall be qualifying in nature and no additional credits for the same shall be allocated.

### Manner and mode for drawing final merit list:

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum qualifying marks for Paper I and Paper II separately shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the

advertised posts for the purpose of shortlisting the candidates for skill test.

4. Answer script of Paper-II of a candidate would be evaluated only if the candidate qualifies in Paper-I.
5. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
6. Merit list shall be drawn only for candidates who qualify Paper I, Paper II and skill test, separately. The Merit list shall be drawn on the basis of combined scores of Paper I and Paper II only.
7. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**21. Scheme of Examination for direct recruitment to the post of TELEPHONE OPERATOR (Post Code: P0202), JUNIOR WORK ASSISTANT (ENGINEERING SERVICE) (Relevant trade - Wireman, Mason, Carpenter, etc.) (Post Code: P0204), HEALTH ATTENDANT (Post Code: P0102) and ENGINEERING ATTENDANT (Electric Khalasi, Beldar) (Post Code: P0104)**

**Scheme of Examination:**

|  |                   |  |
|--|-------------------|--|
| <b>Objective Type (Paper I)</b><br>Multiple Choice Questions pertaining to the subject matter of the concerned post. The questions will be upto the level of 10 <sup>th</sup> Class/ Secondary.  | Time:<br>3 hrs.*  | Max. Marks:<br>300 marks (150 questions)   |
| <b>Skill Assessment</b><br>Skills pertaining to subject matter of the concerned post would be assessed. ( The manner in which the skills are to be assessed may be determined by the examiner/ group of examiners appointed for the purpose) | Time:<br>1/2 hrs. | The test will be of 50 marks. To qualify the candidate should obtain 25 marks.<br><br>This will however be only be qualifying in nature. |
| <b>Total Marks</b>   |                   | <b>300</b>   |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the language. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.

3. The minimum qualifying marks for Paper I shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be negative marking for wrong answers in Paper I to the tune of 1/4<sup>th</sup> of marks allocated per question.
5. Merit list shall be drawn only for candidates who qualify for Paper I and Skill Test separately. The Merit list shall be drawn on the basis of scores of Paper I only.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**22. Scheme of Examination for direct recruitment to the post of LIBRARY ATTENDANT (Post Code: P0101)**

The following shall be the scheme of Examination, components of written test and its syllabus for recruitment to the post of **Library Attendant** by the direct recruitment:

**A. Scheme of Examination:**

| <b>Written Test</b>  |               |                          |
|--|---------------|--------------------------|
| <b>Objective Type (MCQ)</b><br>Library Aptitude, General Awareness etc.<br>(150 questions) | Time: 3 hrs.* | Max. Marks:<br>300 marks |
| <b>Total Marks</b>   |               | <b>300 marks</b>         |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| <b>Objective Type (MCQ)</b> | <b>TEST COMPONENTS</b>            | <b>DURATION: 3 hours</b> |              |
|-----------------------------|-----------------------------------|--------------------------|--------------|
|                             |                                   | <b>NO. OF QUESTIONS</b>  | <b>MARKS</b> |
| (i)                         | Library Aptitude                  | 50                       | 100          |
| (ii)                        | General Awareness                 | 25                       | 50           |
| (iii)                       | Reasoning Ability                 | 25                       | 50           |
| (iv)                        | Mathematical Ability              | 25                       | 50           |
| (v)                         | Test of Language English or Hindi | 25                       | 50           |
| <b>TOTAL</b>                |                                   | <b>150</b>               | <b>300</b>   |

**B. Detailed Syllabus:**

- (i) **Library Aptitude:** Questions will be designed to test the knowledge and awareness on Library Information Science and recent development in the field of Library Science. The questions may be from all the spheres of library science.

- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.
- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:** In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for the written test shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts.
4. There shall be negative marking for wrong answers in written test to the tune of  $1/4^{\text{th}}$  of marks allocated per question.
5. Merit list shall be drawn only for candidates who qualify written test.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**23. Scheme of Examination for direct recruitment to the post of LABORATORY ATTENDANT (Post Code: P0103)**

The following shall be the scheme of examination, components of written test and its syllabus for the post of **Laboratory Attendant**

**A. Scheme of Examination:**

| Written Test  |               |                          |
|---|---------------|--------------------------|
| <b>Objective Type (MCQ)</b><br>General Science and Awareness<br>(150 questions) | Time: 3 hrs.* | Max. Marks:<br>300 marks |
| <b>Total Marks</b>  |               | <b>300 marks</b>         |

\*15 minutes extra per hour would be given to Visually Handicapped, Cerebral Palsy candidates or similarly placed candidates from PwBD category.

| Objective Type (MCQ) | TEST COMPONENTS                   | DURATION: 3 hours |            |
|----------------------|-----------------------------------|-------------------|------------|
|                      |                                   | NO. OF QUESTIONS  | MARKS      |
| (i)                  | General Science                   | 60                | 120        |
| (ii)                 | General Awareness                 | 20                | 40         |
| (iii)                | Reasoning Ability                 | 20                | 40         |
| (iv)                 | Mathematical Ability              | 30                | 60         |
| (v)                  | Test of Language English or Hindi | 20                | 40         |
|                      | <b>TOTAL</b>                      | <b>150</b>        | <b>300</b> |

**B. Detailed Syllabus:**

- (i) **General Science:** Questions will be designed to test the knowledge of science, laboratory equipment and lab practice. The questions may be from all the spheres of science, however, emphasis would be on the field of science pertaining to the department for which the candidate is being assessed. In case of appointment in departments under the Faculty of Arts/Social Sciences/Mathematical Sciences questions pertaining to the subject matter of the concerned department may also be included.  
For Computer Laboratory Attendant the questions may be based on computer science and computer applications.
- (ii) **General Awareness:** Questions will be designed to test the ability of the candidate's General Awareness of the environment and its relevance to the society. The questions will also be designed to test knowledge of the current events and of such matters of everyday observation as may be expected of an educated person. The test will include questions relating to India and her neighboring countries, especially pertaining to History, Indian Polity & Constitution, Art & Culture, Geography, Economics, General Policy, Science & Scientific Research, National/International Organizations /Institutions, events etc.
- (iii) **Reasoning Ability:** The syllabus of General Intelligence includes questions of both verbal and non-verbal types. Test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship, concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc.

- (iv) **Mathematical Ability:** The test of Arithmetical and Numerical Ability will cover Number System including questions on Simplification, Decimals, Fractions, L.C.M., H.C.F., Ratio & Proportion, Percentage, Average, Profit & Loss, Discount, Simple & Compound Interest, Mensuration, Time & Work, Time & Distance, Tables & Graphs, etc.
- (v) **Test of Language English or Test of Language Hindi:** In addition to the testing of candidate's understanding of the English or Hindi Languages, its Vocabulary, Grammar, Sentence Structure, Synonyms, Antonyms and its correct usage etc. would also be tested.

**Manner and mode for drawing final merit list:**

(S.No.25 at the end of this section may also be referred).

1. The question paper should be bilingual (English and Hindi) and the applicant will have the option to respond in either of the languages. However, the same medium of language must be used throughout.
2. The questions in the written test will be of the level of degree/diploma/examination which is defined as the minimum eligibility for the respective post.
3. The minimum overall qualifying marks for written test shall be 45% for the unreserved posts and 40% for the posts reserved for OBC category and 35% for the posts reserved for SC/ST/ PwBD category. If the number of candidates qualifying is more than 30 times the advertised posts, the merit list would be restricted to 30 times the advertised posts for the purpose of shortlisting the candidates for skill test.
4. There shall be negative marking for wrong answers in MCQ based questions to the tune of 1/4<sup>th</sup> of marks allocated per question.
5. Merit list shall be drawn only for candidates who qualify written test.
6. In case of bunching/bracketing of candidates in the results of the written test, the priority/merit list would be decided as follows:
  - a) The candidate having more marks in aggregate in the examination/degree/diploma which is defined as the minimum eligibility for the respective post will be given preference.
  - b) In case of further bunching/bracketing of candidates, candidate senior in age will be given preference.
  - c) In case option at (a) and (b) is exhausted, it will be decided through draw of lots.

**24. ADDITIONAL CREDITS(MARKS) FOR APPLICANTS WORKING ON CONTRACT/DAILY WAGES/AD-HOC BASIS IN THE UNIVERSITY OF DELHI OR ITS COLLEGES**

Credits (Marks) on the following basis shall be added to the final merit list with respect to the candidates working on contract/daily wages/ad-hoc basis in the University or its Colleges.

- One mark for each completed year with a cap of a maximum of 10 marks.
- For giving marks, period of more than 6 months service (each month counted as having 30 days) or 181 days will be counted as one year while no credit will be given for service put in for 6 months, i.e., less than 180 days.
- In other words, the applicant would get a maximum of 10 marks, which would be added to their total score, even if she/he has put in service of more than 10 years of service.
- The extra credit given would, however, be capped so as not to exceed the maximum score