

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

इस पुस्तिका की सील तब तक न खोले जब तक कहा न जाए

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JDD-7/HC/X-14

Serial No.

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पोस्ट कोड

Write here Roll number and Answer-Sheet No.

यहाँ क्रमांक एवं उत्तर-पत्रिका संख्या लिखें

138753

Roll No./ अनुक्रमांक

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Answer-Sheet No./ उत्तर-पत्रिका संख्या

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Time Allowed : 2 hours OBJECTIVE TYPE ONE-TIER EXAMINATION Maximum Marks : 200

निर्धारित समय : 2 घंटे वस्तुनिष्ठ वन-टियर परीक्षा अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions.

प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें।

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 200 questions in all comprising the following Sections :

Sl. No.	Test Components	No. of Questions	Page No.
i)	General Awareness	40	4 - 13
ii)	General Intelligence and Reasoning Ability	40	14 - 25
iii)	Arithmetical and Numerical Ability	40	26 - 37
iv)	Test of Language : Hindi	40	38 - 42
v)	Test of Language : English	40	43 - 47

2. All questions are compulsory and carry equal marks.
3. The paper carries negative markings. For each wrong answer 0.25 mark will be deducted.
4. In case of any discrepancy between the English and Hindi versions of any question, the English version will be treated as final/authentic.
5. OMR Answer-Sheet is enclosed in this Booklet. You must complete the details of Roll Number, Question Booklet No., etc., on the Answer-Sheet and Answer-Sheet No. on the space provided above in this Question Booklet, before you actually start answering the questions, failing which your Answer-Sheet will not be evaluated and you will be awarded ZERO mark.
6. You must not tear off or remove any sheet from this Booklet. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
7. Use of Calculator/Palmtop/Laptop/Other Digital Instrument/Mobile/Cell Phone/Pager is not allowed.
8. Candidates found guilty of misconduct/using unfair means in the Examination Hall will be liable for appropriate penal/legal action.
9. The manner in which different questions are to be answered has been explained at the back of this Booklet, which you should read carefully before actually answering the questions.
10. No Rough Work is to be done on the Answer-Sheet.

उम्मीदवारों के लिए महत्वपूर्ण अनुदेश

1. इस पुस्तिका में कुल 200 प्रश्न हैं, जिनमें निम्नलिखित भाग शामिल हैं :

क्रमांक	परीक्षण विषय	प्रश्नों की संख्या	पृष्ठ क्रमांक
i)	सामान्य जानकारी	40	4 - 13
ii)	सामान्य बुद्धिमत्ता तथा तार्किक योग्यता	40	14 - 25
iii)	अंकगणितीय एवं संख्यात्मक योग्यता	40	26 - 37
iv)	भाषा परीक्षण : हिन्दी	40	38 - 42
v)	भाषा परीक्षण : अंग्रेजी	40	43 - 47

2. सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
3. प्रश्न पत्र में नकारात्मक अंकन होगा। हर गलत उत्तर के लिए 0.25 अंक काटा जायेगा।
4. यदि किसी प्रश्न के हिन्दी तथा अंग्रेजी अनुवाद में कोई अंतर है तो अंग्रेजी अनुवाद को ही सही समझा जायेगा।
5. इस उत्तर-पुस्तिका में ओ.एम.आर. उत्तर-पत्रिका संलग्न है। प्रश्नों के उत्तर पारलप्य में शुरू करने से पहले आप उत्तर-पत्रिका में अपना रोल नम्बर, प्रश्न पुस्तिका संख्या, इत्यादि तथा इस प्रश्न पुस्तिका में उपरोक्त दिए गए स्थान पर उत्तर-पत्रिका की संख्या लिखें। अन्यथा आपकी उत्तर-पत्रिका को जाँचा नहीं जायेगा और शून्य अंक दिया जायेगा।
6. इस पुस्तिका से कोई पन्ना फाड़ना या अलग करना मना है। परीक्षा-भवन छोड़ने से पहले उत्तर-पत्रिका निरीक्षक के हवाले कर दें।
7. कैलकुलेटर / पामटॉप / लैपटॉप / अन्य डिजिटल उपकरण / मोबाइल / सेल फोन / पेजर का उपयोग वर्जित है।
8. परीक्षा-भवन में अनुचित व्यवहार एवं कार्रवाई के लिए दोषी पाये गये अभ्यर्थी व्यक्तिगत दंडनीय/दैधानिक कार्यवाही के पात्र होंगे।
9. विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे छपे हुए दिशियों में दे दी गई है, इसे आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
10. कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है।

Go through instructions given in Page No. 48 (Back Cover Page)

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SEAL

SEAL



i) General Awareness

1. Recently CBI Director _____ announced a special unit to probe corrupt practices like cases of fraud, fixing and illegal betting in sports.
(A) Mr. D. P. Kohli
(B) Mr. Ranjit Sinha
(C) Mr. Vijay Durda
(D) None of these
2. Transgenders were granted the status of _____ by the Supreme Court on April 5, 2014 in a landmark ruling that will entitle them to benefits of the central and state government welfare schemes.
(A) First gender
(B) Second gender
(C) Third gender
(D) Fourth gender
3. Satish Dhawan Space Centre is at
(A) Hassan
(B) Srirampura
(C) Thiruvananthapura
(D) Sriharikota
4. _____ was sworn in as the new Chief Justice of India on April 27, 2014.
(A) Justice Mr. P. Sadhashivam
(B) Justice Mr. R. M. Lodha
(C) Justice Mr. P. Mukherjee
(D) Justice Mr. R. K. Dhowan
5. _____ was on April 6, 2014 named captain of the 2014 ICC World T20 Team.
(A) J. P. Duminy
(B) Glenn Maxwell
(C) Darren Sammy
(D) M. S. Dhoni
6. Mr. Narendra Modi was sworn in on 28-5-2014 as the _____ Prime Minister of India.
(A) 15th
(B) 14th
(C) 16th
(D) None of these
7. Expansion of IIFA is
(A) Indian International Film Academy
(B) International Indian Film Academy
(C) Indo International Film Academy
(D) None of these

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8. _____ was selected for the 45th Dada Saheb Phalke Award for the year 2013.
- (A) Amitab Bachchan
(B) Rajanikant
(C) Girish Karnad
(D) Gulzar
9. "India Wins Freedom" is the autobiography of
- (A) Abdul Kalam Azad
(B) Zakir Hussain
(C) Mahatma Gandhi
(D) Jawaharlal Nehru
10. Two persons are nominated by the President to be members of Lok Sabha to represent the
- (A) Indian Christians
(B) Anglo Indians
(C) Buddhists
(D) Parsis
11. The Government on April 29, 2014 disclosed to the Supreme Court the names of 26 people who had accounts in banks in Liechtenstein, revealed to India by _____
- (A) British (B) Italian
(C) Swiss (D) German
12. World Environment Day is observed on
- (A) June 5 (B) May 1
(C) June 15 (D) April 14
13. Indian High Commissioner Mr. Virendra Gupta, launched an education outreach programme on April 25, 2014 in Pretoria. Pretoria is located in
- (A) Kenya
(B) South Africa
(C) Zimbabwe
(D) None of these
14. On April 5, 2014, who won the 51st edition of the Femina Miss India 2014 crown ?
- (A) Ms. Heena Rani
(B) Ms. Sujatha Rai
(C) Ms. Koyal Rana
(D) Ms. Preetham Singh
15. Who was the Chairman of the Drafting Committee of the Constituent Assembly ?
- (A) B.R. Ambedkar
(B) C.D. Deshmukh
(C) Babu Rajendra Prasad
(D) Jawaharlal Nehru

A*

6



16. In the event of non-enforcement of Directive Principles of State Policy by the Government, a citizen of India can move the
- (A) High Court
(B) Supreme Court
(C) District Court
(D) None of these
17. The joint sitting of the Parliament is presided over by the
- (A) President of India
(B) Prime Minister of India
(C) Chairman of the Rajya Sabha
(D) Speaker of the Lok Sabha
18. A person having AB-group of blood can donate blood to a person having
- (A) A-group (B) B-group
(C) AB-group (D) O-group
19. The atmosphere is heated mainly by
- (A) Insolation
(B) Conduction
(C) Radiation
(D) Convection
20. Motilal Nehru and Chittaranjan Das were the founder-members of the
- (A) Swarajya Party
(B) Forward Block
(C) Congress Party
(D) None of these
21. A narrow stretch of water connecting two seas is called
- (A) Bay (B) Straight
(C) Peninsula (D) Plateau
22. Which of the following companies has been declared at top position among Information Technology Software and Service Exporters for 2013-2014 ?
- (A) WIPRO
(B) TCS
(C) IBN India
(D) Infosys Technologies
23. Who painted the masterpiece "Hamsa Damayanthi" ?
- (A) Amritha Shergil
(B) K. K. Hebbar
(C) M. F. Hussain
(D) Raja Ravi Varma
24. Among the four sons of Shah Jahan, who is credited to have got translated Atharva Veda ?
- (A) Shuja
(B) Murad
(C) Dara Shikoh
(D) Aurangzeb

25. Which of the following battles marked the real beginning of the Mughal Empire in India ?
- (A) Battle of Talikota
 - (B) Battle of Haldighat
 - (C) First Battle of Panipat
 - (D) Second Battle of Panipat
26. Who was the last Mughal Emperor of India ?
- (A) Akbar II
 - (B) Bahadur Shah II
 - (C) Alamgir II
 - (D) Shah Alam II
27. The latitudes that pass through Sikkim also pass through
- (A) Rajasthan
 - (B) Punjab
 - (C) Himachal Pradesh
 - (D) Jammu and Kashmir
28. Shivasamudra is an island formed by the river
- (A) Ganga
 - (B) Godavari
 - (C) Krishna
 - (D) Cauvery
29. The electronic configuration of an atom having atomic number '20' is
- (A) 2, 8, 10
 - (B) 2, 6, 8, 4
 - (C) 2, 8, 8, 2
 - (D) 2, 10, 8
30. One byte consists of
- (A) One bit
 - (B) Four bits
 - (C) Eight bits
 - (D) Ten bits
31. Who amongst the following is a famous economist ?
- (A) Richard Dawkins
 - (B) Alan Greenspan
 - (C) Vernon Heywood
 - (D) Stephen Hawking
32. Who was the author of 'Gita Govinda' ?
- (A) Jayadeva
 - (B) Kalhana
 - (C) Kalidasa
 - (D) Raja Rao
33. Identify the odd one in the below given set. The odd one doesn't belong to the category to which the remaining three belong.
- (A) Calyx
 - (B) Corolla
 - (C) Stamens
 - (D) Madrib



34. Winter Olympics 2014 will be held in
- (A) Italy
 - (B) Brazil
 - (C) U.S.A.
 - (D) Russia
35. A stick immersed in water appears bent due to the phenomena of
- (A) Reflection of light
 - (B) Diffraction of light
 - (C) Refraction of light
 - (D) Dispersion of light
36. The Thar Express goes to
- (A) Afganistan
 - (B) Bangladesh
 - (C) Pakistan
 - (D) Myanmar
37. Name the process of production of energy in the sun.
- (A) Nuclear fission
 - (B) Radioactivity
 - (C) Nuclear fusion
 - (D) Ionization
38. Bleaching powder is used in drinking water as a/an
- (A) Disinfectant
 - (B) Antibiotic
 - (C) Antiseptic
 - (D) Coagulant
39. Of which of the following states of India is Kuchipudi a dance-drama ?
- (A) Kerala
 - (B) Andhra Pradesh
 - (C) Orissa
 - (D) Tamil Nadu
40. Ramon Magsaysay Award is presented to perpetuate former _____ President Ramon Magsaysay.
- (A) Malaysian
 - (B) Singapore
 - (C) Phillipin's
 - (D) Indonesian



II) General Intelligence and Reasoning Ability

41. Which of the following is equivalent of Canada, Chile and Germany ?
- (A) Ottawa
(B) Paris
(C) Chicago
(D) Singapore
42. Through how many degrees does the hour hand in a clock move as the time changes from 3 hours and 36 minutes to 6 hours ?
- (A) 72
(B) 84
(C) 76
(D) 80
43. In a certain code YIELD is written as 'β 64@%' and PLANT is written as '\$ @2*⊙'. How is DELAY written in that code ?
- (A) % 42@β
(B) % 4@2β
(C) % 24@β
(D) % 2@4β
44. The fifth term of the alphabet series BCYX, EFVU, HISR, KLPO, is
- (A) ONML
(B) NOLM
(C) NOML
(D) ONLM
- Directions (Qs. 45 to 47) :** Study the information and answer these questions :
- In a certain code language
- "demand and supply economics" is written as, "mo ta pa ka"
- "demand makes supply economics" is written as, "zi mo ka ta"
- "money makes only part" is written as "zi la ne ki"
- "economics is not money" is written as "ka la ho ga"
45. What is the code for 'economics' in the given code language ?
- (A) ta
(B) mo
(C) pa
(D) ka
46. What is the code for 'money' in the given code language ?
- (A) ga
(B) mo
(C) la
(D) ta

A*

47. What is the code for 'makes' in the given code language ?

- (A) zi
(B) mo
(C) pa
(D) ne

Directions (Qs. 48 to 50) : Six students A, B, C, D, E and F are the top six rankers of the class. No two students got the same rank. Student who got the highest marks is given rank 1 and the student who got the least marks is given rank 6. 'B' got less marks than both 'C' and 'F'. 'A' got more marks than 'E' but less than 'D'. 'B' got the second least and F got second highest. 'C' got less marks than 'A'.

48. Who got the third rank ?

- (A) C
(B) A
(C) E
(D) None of these

49. Who got sixth rank ?

- (A) D
(B) C
(C) E
(D) B

50. Who got fourth rank ?

- (A) D
(B) C
(C) A
(D) None of these

A*

Directions (Q. 51 to 53) : Read the information carefully and answer these questions.

If $P + Q$ means P is the father of Q

If $P \times Q$ means P is the sister of Q

If $P \& Q$ means P is the wife of Q

If $P \% Q$ means P is the mother of Q

If $P \div Q$ means P is the son of Q

51. What should come in place of * mark to establish that J is the brother of T in the expression : $J + R \% H * T$?

- (A) \times
(B) $+$
(C) $\&$
(D) None of these

52. Which among the given expressions indicate that M is the daughter of D ?

- (A) $L \% R \& D + T \times M$
(B) $L + R \& D + M \times T$
(C) $D + L \& R + M \times T$
(D) None of these

53. Which among the given expressions indicate that T is the daughter of K ?

- (A) $W \% L \times T \times Y \div K$
(B) $W \% L + T \times K \div L$
(C) $W \% K + T \times Y \div L$
(D) None of these

7. इस

(A)

(B)

(C)

(D)

निर्देश : प्र
कक्षा के पह
विद्यार्थियों क
को सबसे अ
गया है औ
और 'F' दो
लेकिन 'D'
और 'F' को
से कम गुण

48. वि

(A)

(B)

(C)

(D)

49. च

(A)

(B)

(C)

(D)

50.

(A)

(B)

(C)

(D)

A*

Directions (Qs. 54 and 55) : In each of these questions two or three statements are given followed by conclusions numbered I and II. You have to assume all statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given two conclusions logically follows from the information given in the statements.

Give answer :

- (A) if only conclusion I follows
- (B) if only conclusion II follows
- (C) if neither I nor II follows
- (D) if both I and II follow

54. **Statements :** All songs are poems.
All poems are rhymes.
No rhyme is a paragraph.

Conclusions : I. All rhymes are poems.
II. All songs are rhymes.

55. **Statements :** Some dewes are drops.
All drops are stones.

Conclusions : I. At least some dewes are stones.
II. At least some stones are drops.

A*



Directions (Qs. 56 and 57) : In these questions from the given alternative words, choose the word which cannot be formed using the letters of the given word.

56. UNEQUIVOCAL

- (A) OCEAN
- (B) QUILON
- (C) QUAIN
- (D) NAIVE

57. HYPERCATALETIC

- (A) PERCENT
- (B) PARALETIC
- (C) RECEIPT
- (D) ERATIC

58. If 'M' denotes 'added to', 'P' denotes 'multiplied by', 'B' denotes 'divided by' and 'T' denotes 'subtracted from', then what should be the correct response of $7P6M16T12B3$?

- (A) 45
- (B) 58
- (C) 54
- (D) 62



59. In a certain code SAARC is written as CRAAS. How KASIM can be written in that code ?

- (A) MSIAK
- (B) MISKA
- (C) MSIKA
- (D) MISAK

60. Find out the wrong number in the sequence

102, 101, 98, 93, 86, 77, 65, 53.

- (A) 98
- (B) 86
- (C) 65
- (D) 53

61. If $35 \times 16 = 90$, $46 \times 22 = 96$, $29 \times 48 = 576$, then $17 \times 24 = ?$

- (A) 56
- (B) 286
- (C) 48
- (D) 64

62. If each of the letters in the English alphabet is assigned odd numerical value beginning A = 1, B = 3, C = 5 and so on, what will be the total value of the letters of the word "HATE" ?

- (A) 68
- (B) 64
- (C) 62
- (D) 60

63. Mohan walks a distance of 3 km toward North, then turns to his left and walks for 2 km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. How many kilometers is he from the starting point ?

- (A) 5 km
- (B) 4 km
- (C) 2 km
- (D) 1 km

64. Vani is a year older than Smitha. Smitha is two years older than Sanjay. Raju is a year older than Sanjay. Who is the youngest of all ?

- (A) Sanjay
- (B) Raju
- (C) Smitha
- (D) Vani

65. A group of letters are given with each being assigned a number serially from 1 to 8. These have to be unscrambled into a meaningful word and correct order of letter may be indicated from the given responses.

YMLOSBCI

- (A) 56241387
- (B) 51264387
- (C) 21645387
- (D) 47685321

Directions (Qs. 66 to 68) : Examine carefully the following statement and answer the questions that follow.

Out of four friends A, B, C and D

B and C play cricket and hockey

C and D play hockey and basketball

A and D play basketball and football

A and B play football and cricket

66. Who plays football, basketball and hockey ?
- (A) A
(B) B
(C) C
(D) D
67. Who does not play hockey ?
- (A) D
(B) C
(C) B
(D) A
68. Which game do B, C and D play ?
- (A) Football
(B) Hockey
(C) Basketball
(D) Cricket

A*



Directions (Qs. 69 and 70) : Read the following information to answer these questions.

- i) ABCDEF and G are sitting along a circle facing the centre
ii) A is between G and D
iii) C who is 2nd to the right of D is between B and F
iv) B is not the neighbour of E

69. Which of the following is a correct statement ?
- (A) G is between A and D
(B) D is 2nd to the left of G
(C) C is 3rd to the left of A
(D) A is to the immediate left of D
70. What is the position of E ?
- (A) Between C and G
(B) To the immediate left of G
(C) 2nd to the left of C
(D) 2nd to the left of B

Directions (Qs. 71 to 75) : Select the one which is different from the other three responses.

71. (A) Rhombus
(B) Sphere
(C) Parallelogram
(D) Triangle
72. (A) EDC
(B) QPO
(C) WUS
(D) NML

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73. (A) 625
(B) 169
(C) 225
(D) 285
74. (A) Square root
(B) Square feet
(C) Square metre
(D) Square inch
75. (A) Blunt - Pointed
(B) Soft - Hard
(C) Long - High
(D) Sweet - Sour
76. Find the wrong number in the given series.
9, 16, 24, 36, 49, 64
(A) 49
(B) 24
(C) 16
(D) 64
77. If in a certain code, DAUGHTER is written as TERDAUGH, how will APTITUDE be written in that code ?
(A) DUEAPTIT
(B) DAUEPTIT
(C) DEUAPTIT
(D) UDEAPTIT

A*

78. Which one of the following words will appear fourth in the English dictionary ?

- (A) Encroach
(B) Encounter
(C) Encradle
(D) Encourage

Directions (Qs. 79 and 80) : Find the missing number from the given alternatives.

79. 4, 16, 36, 64, ?, 144, 196
(A) 96
(B) 81
(C) 121
(D) 100
80.

2	3	3	5	4
5	7	4	3	2
3	5	6	4	5
13	26	18	?	13

(A) 19
(B) 25
(C) 13
(D) 17



iii) Arithmetical and Numerical Ability

81. A man buys one tea table and one chair for ₹ 500. He sells the tea table at a loss of 10% and the chair at a gain of 10%. He still gains ₹ 10 on the whole. The cost price of the chair is
- (A) ₹ 350 (B) ₹ 300
(C) ₹ 250 (D) ₹ 200
82. A train 100 metres long moving at a speed of 50 km/hr takes how much time to cross another train 120 metres long coming from opposite direction at a speed of 82 km/hr ?
- (A) 6 secs
(B) 12 secs
(C) 10 secs
(D) 4 secs
83. H.C.F. and L.C.M. of two numbers are 10 and 200. If one of these two numbers is 50, find the other.
- (A) 20
(B) 30
(C) 40
(D) 100
84. If the length of a chord of a circle, which makes an angle 45° with the tangent drawn at one end point of the chord is 6 cm, then the radius of the circle is
- (A) 6 cm (B) $3\sqrt{2}$ cm
(C) $6\sqrt{2}$ cm (D) 5 cm
85. A person travels 285 Km in 6 hrs. In the first part of the journey, he travels at 40 Km/hr by bus. In the second part he travels at 55 Km/hr by train. The distance travelled by train is
- (A) 156 Km
(B) 625 Km
(C) 615 Km
(D) 165 Km
86. The diameter of a garden roller is 1.4 m and it is 2 m long. The area covered by the roller in 10 revolutions is
- (A) 88 m^2
(B) 44 m^2
(C) 8.8 m^2
(D) 76.8 m^2
87. A die is thrown twice. What is the probability of getting a sum 7 from both the throws ?
- (A) $\frac{5}{18}$
(B) $\frac{1}{9}$
(C) $\frac{5}{36}$
(D) $\frac{1}{6}$

A*



88. The value of x when 5% of $\sqrt{2x}$ is 0.01 will be
(A) 0.02 (B) 0.01
(C) 0.05 (D) 0.03
89. The rate of simple interest at which a sum of money becomes three times in 25 years is
(A) 4%
(B) 8%
(C) 5%
(D) 6%
90. A grain dealer cheats to the extent of 10% while buying as well as selling by using false weights. His total profit percentage is
(A) 21% (B) 20%
(C) 25% (D) 23%
91. The radius of a circle is 13 cm. The length of the chord which is at a distance of 12 cm from the centre of the circle is
(A) 12 cm
(B) 20 cm
(C) 15 cm
(D) 10 cm
92. If $a + b = 6$, $a - b = 2$, then the value of $2(a^2 + b^2)$ is
(A) 30
(B) 40
(C) 20
(D) 10
93. A, B and P are three points on a circle having centre O. If $\angle OAP = 25^\circ$ and $\angle OBP = 35^\circ$, then the measure of $\angle AOB$ is
(A) 150°
(B) 60°
(C) 75°
(D) 120°
94. A square is inscribed in a circle of radius 8 cm. The area of the square is
(A) 16 sq.cm
(B) 128 sq.cm
(C) 64 sq.cm
(D) 148 sq.cm



95. The prize money of ₹ 1,800 is divided among 3 students A, B and C in such a way that 4 times the share of A is equal to 6 times the share of B, which is equal to 3 times the share of C. Then 'A's share is
- (A) ₹ 600
(B) ₹ 400
(C) ₹ 800
(D) ₹ 700
96. 12 men construct 1.5 Km of road in 7 days. 28 men will construct 12 Km of road in
- (A) 20 days
(B) 28 days
(C) 24 days
(D) 38 days
97. From the digits 4, 5, 7, 6, 1 how many three digit odd numbers can be made using each digit only once ?
- (A) 10
(B) 20
(C) 30
(D) 36
98. For ₹ 6,000, at 10%, the difference between the compound interest and simple interest for 2 years is
- (A) ₹ 100
(B) ₹ 60
(C) ₹ 120
(D) ₹ 80
99. If ΔABC is similar to ΔDEF such that $BC = 3$ cm, $EF = 4$ cm and area of $\Delta ABC = 54$ cm², then area of ΔDEF is
- (A) 96 cm²
(B) 66 cm²
(C) 54 cm²
(D) 78 cm²
100. What number should be subtracted from each of the numbers 23, 30, 57 and 78, so that the remainders are in proportion ?
- (A) 5
(B) 6
(C) 4
(D) 3



101. If $A : B = 3 : 4$ and $B : C = 6 : 7$, find $A : B : C$
- (A) $18 : 24 : 11$
(B) $9 : 12 : 14$
(C) $9 : 14 : 12$
(D) $18 : 12 : 25$
102. If $3A = 4B = 6C$, find $A : B : C$
- (A) $4 : 3 : 2$
(B) $24 : 18 : 7$
(C) $16 : 9 : 7$
(D) $3 : 4 : 6$
103. The radius of a sphere is 9 cm. It is melted and drawn into a wire of diameter 2 mm. Find the length of the wire in metres
- (A) 962 m
(B) 972 m
(C) 970 m
(D) 900 m
104. Two circles with radii 9 cm and 4 cm touch each other externally. Find the length of the direct common tangent.
- (A) 13 cm
(B) 11 cm
(C) 12 cm
(D) 10 cm
105. A metallic sphere of radius 10.5 cm is melted and then recast into small cones each of radius 3.5 cm and height 3 cm. The number of cones thus obtained is
- (A) 112
(B) 116
(C) 120
(D) 126
106. How many diagonals can be drawn in a decagon ?
- (A) 55
(B) 45
(C) 35
(D) 25

107. In a school, the students either speak English or Kannada or both. If 350 speak English, 250 speak Kannada and 150 speak both English and Kannada, the total number of students in the school is
- (A) 400
(B) 600
(C) 450
(D) 500
108. Mr. Suresh invested ₹ 52,000 on shares of face value ₹ 100 at a discount of ₹ 20 paying 8% dividend. The annual dividend he gets from this investment is
- (A) ₹ 5,000
(B) ₹ 4,160
(C) ₹ 5,100
(D) ₹ 5,200
109. LCM of $(ab - b^2)$ and $(a^2 - b^2)$ is
- (A) $a(a^2 - b^2)$
(B) $b(a^2 - b^2)$
(C) $(a^2 - b^2)$
(D) $b(a - b)$
110. If twenty five percent of three sevenths of twenty six percent of a number is 136.5, what is the number?
- (A) 6300
(B) 5600
(C) 4800
(D) 4900
111. In a school, there are 11 teachers including the Headmaster. From these 11 teachers, how many committees of 4 teachers including the Headmaster can be made?
- (A) 330
(B) 300
(C) 120
(D) 240
112. $(196)^{\frac{1}{2}} - (64)^{\frac{1}{3}} - \sqrt{10^2} = ?$
- (A) 10
(B) 0
(C) 4
(D) none of these
113. The diagonal of a square is $8\sqrt{2}$ cm. The perimeter of this square is
- (A) 64 cm
(B) 46 cm
(C) 32 cm
(D) 40 cm



114. What is the sum of the first 20 odd natural numbers ?
- (A) 400
(B) 200
(C) 420
(D) 440
115. AB and CD, two chords of a circle intersect at a point P. If $\angle APC = 80^\circ$, $\angle ADP = 30^\circ$, value of $\angle BCD$ is
- (A) 60°
(B) 65°
(C) 55°
(D) 50°
116. If $x + \frac{1}{x} = 2$, then $x^3 + 3x + \frac{3}{x} + \frac{1}{x^3} = ?$
- (A) 16
(B) 18
(C) 8
(D) 9
117. Father's age is seven times his son's age. After five years, his age becomes four times his son's age. What is the present age of the father ?
- (A) 45 yrs.
(B) 30 yrs.
(C) 40 yrs.
(D) none of these
118. When the price of TV set was increased by 30%, the number of TV sets sold decreased by 20%. What was the effect on the sales ?
- (A) 8% decrease
(B) 8% increase
(C) 4% increase
(D) 4% decrease
119. Greatest among the numbers $\sqrt[3]{9}$, $\sqrt{3}$, $\sqrt[4]{16}$, $\sqrt[5]{30}$ is
- (A) $\sqrt[3]{9}$
(B) $\sqrt{3}$
(C) $\sqrt[4]{16}$
(D) $\sqrt[5]{30}$
120. P has twice as much money as that of Q and Q has 50% more money than that of R. If the average money of all of them is ₹ 110, then the money which P has is
- (A) ₹ 90
(B) ₹ 60
(C) ₹ 55
(D) ₹ 180



iv) Test of Language : Hindi

भाषा परीक्षण : हिन्दी

121. जो कम व्यय करता है उसे _____
कहते हैं ।
(A) अल्पभाषी
(B) मितभाषी
(C) मितव्ययी
(D) अजातशत्रु
122. 'सरल' शब्द का विलोम शब्द
(A) कठिन
(B) तरल
(C) गरल
(D) जटिल
123. प्रतिदिन छपनेवाला पत्रिका को _____
कहते हैं ।
(A) मासिक
(B) दैनिक
(C) वार्षिक
(D) साप्ताहिक
124. 'रजनी' शब्द का समानार्थक शब्द
(A) दिन
(B) उजाला
(C) सुबह
(D) रात
125. 'बहन' शब्द का बहुवचन रूप
(A) बहने
(B) बहनें
(C) बहन
(D) बहनाएँ
126. 'बादशाह' शब्द का स्त्रीलिंग रूप
(A) बादशाही
(B) बादशाहिन
(C) बेगम
(D) बादशाहीन
127. 'बूढ़ा' शब्द का भाववाचक संज्ञा रूप
(A) बुढ़ापा
(B) बूढ़ी
(C) बूढ़ापन
(D) बुढ़ापन
128. बाहर के देशों में वस्तुओं को भेजने के लिए
हिन्दी में _____ कहते हैं ।
(A) आयात
(B) निर्यात
(C) साकार
(D) बेचना

129. उपकार को माननेवाला

- (A) अनुभवि
- (B) सर्वज्ञ
- (C) कृतज्ञ
- (D) कृतघ्न

130. '2½' को हिन्दी में _____ कहते हैं।

- (A) साडे दो
- (B) सवा
- (C) डेढ़
- (D) डार्ई

131. 'सच' शब्द का विलोम शब्द

- (A) जूठ
- (B) झुठ
- (C) झूठ
- (D) झूट

132. पचास को अंकों में _____ लिखते हैं।

- (A) ३०
- (B) ५०
- (C) ४०
- (D) ६०

133. 'हम शिकार खेलते हैं' इस वाक्य में

_____ सर्वनाम है।

- (A) हैं
- (B) शिकार
- (C) खेल
- (D) हम

134. छात्र कलम _____ लिखता है।

- (A) में
- (B) से
- (C) पर
- (D) के लिए

135. 'सलिल' शब्द का सही अर्थ

- (A) पानी
- (B) मलिन
- (C) आग
- (D) सरल

136. उसे पद _____ हटा दिया गया।

- (A) में
- (B) पर
- (C) के द्वारा
- (D) से

137. 'विधवा' शब्द का पुल्लिंग रूप
- (A) विदुष
(B) विधुर
(C) विदुषी
(D) विद्वान
138. 'भुजंग' शब्द का अर्थ
- (A) गज
(B) सुअर
(C) भुजाएँ
(D) साँप
139. 'नगद' शब्द का विलोम शब्द
- (A) कर्ज
(B) धन
(C) उदार
(D) निर्धन
140. 'अच्छाई' का विशेषण रूप
- (A) इच्छा
(B) अच्छाईपन
(C) बुरा
(D) अच्छा
141. स्वाम _____ पुस्तक पढ़ी।
- (A) को
(B) से
(C) ने
(D) के द्वारा
142. '53' को हिन्दी में _____ कहते हैं।
- (A) पचपन
(B) तैंतीस
(C) छप्पन
(D) तिरपन
143. भैंस शब्द का अन्यलिंग रूप
- (A) भैंसा
(B) बैल
(C) बैस
(D) भैस
144. लडका छत _____ गिर पड़ा।
- (A) पर
(B) में
(C) से
(D) के द्वारा
145. कायर शब्द का अर्थ
- (A) वीर
(B) मूर्ख
(C) अच्छा
(D) प्रतिष्ठा

146. 'घर का उजाला' मुहावरे का अर्थ
- (A) धोखा देना
(B) हार कर भागना
(C) बहुत प्यारा
(D) इज्जत बढ़ाने वाला
147. 'अंबर' शब्द का पर्यायवाची शब्द
- (A) अनल
(B) हवा
(C) भूमि
(D) गगन
148. पेड़ _____ पत्ता गिरा।
- (A) पर
(B) से
(C) में
(D) की
149. नेता _____ सभा को संबोधित किया।
- (A) से
(B) को
(C) का
(D) ने
150. उसकी बहन _____ नाम मालती है।
- (A) का
(B) की
(C) कि
(D) के
151. 'देवर' शब्द का स्त्रीलिंग रूप
- (A) देवार
(B) देवरानी
(C) देवरानि
(D) देवरा
152. बिल्ली _____ चुहे को मारा।
- (A) से
(B) ने
(C) के लिए
(D) के द्वारा
153. छात्र कक्षा _____ पढ़ता है।
- (A) में
(B) पर
(C) को
(D) से

A*

154. मेज़ _____ पंखा रखा है ।

- (A) के
- (B) में
- (C) की
- (D) पर

155. 'क्षमा' शब्द का विलोम शब्द

- (A) क्षमापन
- (B) दण्ड
- (C) क्षमा
- (D) सक्षम

निम्नलिखित अनुच्छेद पढ़कर उस पर आधारित प्रश्नों के उत्तर लिखिए ।

ईश्वर ने संसार के सारे रहस्य प्रकृति में छिपाकर रख दिये थे । मनुष्य ने अपने परिश्रम और प्रयत्न से उन रहस्यों पर से पर्दा उठा दिया । वह कहना गलत है कि मनुष्य संसार में आते समय अपना भाग्य लेकर आता है, वास्तव में वह अपने भाग्य का स्वयं निर्माता है जिसे वह अपनी मेहनत से बनाता है । प्रकृति मनुष्य के भाग्य से डरकर नहीं जलिक उसके परिश्रम से हार मानती है । जो लोग भाग्य पर विश्वास करते हैं, वे आलसी हैं । वास्तव में वीर और परिश्रमी व्यक्ति अपना भाग्य स्वयं बनाता है ।

156. वास्तव _____ वह अपने भाग्य का स्वयं निर्माता है ।

- (A) पर
- (B) से
- (C) में
- (D) पर से

157. प्रकृति किससे हार मानती है ?

- (A) परिश्रम से
- (B) भाग्य से
- (C) व्यक्ति
- (D) कायर से

158. ईश्वर ने संसार के सारे रहस्य किसमें छिपाकर रखा है ?

- (A) प्रकृति
- (B) मनुष्य
- (C) प्राणी
- (D) भगवान पर

159. अपने भाग्य का निर्माता कौन है ?

- (A) इश्वर
- (B) मनुष्य
- (C) परिश्रम
- (D) विश्वास

160. जो लोग _____ पर विश्वास करते हैं, वे आलसी हैं ।

- (A) भगवान
- (B) प्रकृति
- (C) भाग्य
- (D) परिश्रम

v) Test of Language : English
भाषा परीक्षण : अंग्रेजी

Directions (Qs. 161 to 166) : Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error if any will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (D). (Ignore the errors of punctuation, if any)

161. This is one company who not only (A)/ sells its products but also (B)/ gives good after-sales service. (C)/ No error (D)
162. Things will not improve (A)/unless you yourself (B)/look into it. (C)/No error (D)
163. Equal opportunities for advancement (A)/across the length and breadth of an organisation (B)/will keep many problems away. (C)/No error (D)
164. Motivating employees with traditional authority (A)/and financial incentives have become (B)/increasingly difficult. (C)/No error (D)
165. Two people, the clerk (A)/and the typist helps me (B)/in my office. (C)/ No error (D)
166. He could succeed in (A)/catching the ball before (B)/it reaches the boundary line. (C)/No error (D)

Directions (Qs. 167 to 170) : In each of the following sentences, there are two blank spaces. Below each sentence there are four pairs of words denoted by the numbers (A), (B), (C) and (D). Find out which pair of words can be used to fill in the blanks in the

sentence in the same sequence to make the sentence meaningfully complete.

167. He is usually _____, but today he appears rather _____
(A) quiet, calm
(B) strict, unwell
(C) happy, humorous
(D) calm, disturbed
168. He is so _____ that everyone is always _____ to help him in his work.
(A) magnanimous, eager
(B) helpful, reluctant
(C) adamant, enthusiastic
(D) cruel, ready
169. It is _____ for every tax-payer to _____ the tax returns to the Income Tax Department.
(A) easy, pay
(B) obligatory, submit
(C) difficult, send
(D) worthwhile, evade
170. The police _____ any attempt of arson by _____ at the trouble spot quite in time.
(A) made, encircling
(B) squashed, surrounding
(C) foiled, arriving
(D) encouraged, remaining

A+



171. The plural of brother-in-law is
 (A) brother-in-laws
 (B) brothers-in-law
 (C) brothers-in-laws
 (D) none of these
172. The plural of journey is
 (A) jourmies
 (B) journeis
 (C) journeys
 (D) journey
173. The word 'Doctor' is of which gender ?
 (A) Masculine Gender
 (B) Feminine Gender
 (C) Neuter Gender
 (D) Common Gender

Directions (Qs. 174 to 177) : In each of these questions four words are given, of which two words are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning and choose the number of the correct letter combination in your answer.

174. (P) incomparable (Q) abundance
 (R) projection (S) plethora
 (A) P - Q
 (B) Q - S
 (C) P - R
 (D) P - S

175. (P) germane (Q) generate
 (R) reliable (S) irrelevant
 (A) P - Q
 (B) P - R
 (C) P - S
 (D) R - S

176. (P) elated (Q) explicit
 (R) eccentric (S) abnormal
 (A) Q - S
 (B) P - R
 (C) Q - R
 (D) R - S

177. (P) insecure (Q) nascent
 (R) emerging (S) consent
 (A) Q - R
 (B) Q - S
 (C) P - Q
 (D) P - R

Directions (Qs. 178 to 180) : In each sentence below, a word/group of words has been underlined. Below each four choices (A), (B), (C), (D) are given. Pick out one which can substitute the underlined word/group of words correctly without changing the meaning of the sentence.

178. By such time you finish that chapter, I will write a letter.
 (A) The time when
 (B) By the time
 (C) By that time
 (D) The time

179. She cooks, washes dishes, does her home work and then relaxing.
- (A) relaxing then
(B) then is relaxing
(C) relaxing is then
(D) then relaxes
180. The chemist hadn't hardly any of those kind of medicines.
- (A) had hardly any of those kinds
(B) had hardly not any of those kinds
(C) had scarcely any of those kind
(D) had hardly any of those kind
181. Without changing the meaning of the below given sentence, transform the degree of comparison from comparative to positive
"Logic is more useful than love"
- (A) Love is not as useful as logic
(B) Love is not much useful as logic
(C) Love is not as much useful as logic
(D) Love is as useful as logic
182. Without changing the meaning of the below given sentence, transform the degree of comparison from superlative to comparative.
"Abhimanyu was one of the bravest of warriors"
- (A) Abhimanyu was braver than all other warriors
(B) Abhimanyu was braver than most of the other warriors
(C) Abhimanyu was braver than very few other warriors
(D) Very few warriors were braver than Abhimanyu

Directions (Qs. 183 to 185) : Rewrite the sentence given in each question as directed in the bracket.

183. "No one lives there". (into a question)
- (A) Do any one lives there ?
(B) Any one live there ?
(C) Does any one lives there ?
(D) Does any one live there ?
184. "The sage is sucking up the river". (into passive) (Change the voice of the verb from active to passive)
- (A) The river is being sucked up by the sage
(B) The river is sucked up by the sage
(C) The river was sucked up by the sage
(D) The river sucked up by the sage
185. "Since he was ill, he did not attend the office." (into a simple sentence)
- (A) He was ill so he did not attend the office
(B) Because he was ill, he did not go to office
(C) Being ill, he did not attend the office
(D) He did not attend the office, because he was ill



Directions (Qs. 186 to 192) : In these questions, sentences are given with blanks to be filled in with appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

186. When she was caught red-handed, she knew that her plans _____ failed.

- (A) have
- (B) were
- (C) are
- (D) had

187. Mrs. D'souza _____ awake the whole of last night worried about her husband's health.

- (A) laid
- (B) lay
- (C) had laid
- (D) lied

188. I _____ for a morning walk regularly, but now I don't go.

- (A) had used to go
- (B) was used to go
- (C) used to go
- (D) am going

189. I congratulated him _____ his success.

- (A) for
- (B) on
- (C) to
- (D) with

190. The game had _____ begun when it started raining.

- (A) unusually
- (B) no sooner
- (C) hardly
- (D) marginally

191. I always like to eat _____ of food.

- (A) this kind
- (B) these kinds
- (C) those kind
- (D) this kinds

192. I hope I can _____ my uncle to lend me his car for the week-end.

- (A) order
- (B) persuade
- (C) authorise
- (D) exploit

193. Choose the word opposite in meaning to the word PRESERVE

- (A) Reserve
- (B) Restrain
- (C) Destroy
- (D) Practice

194. Choose the word which best expresses the meaning of the word CONSEQUENCE

- (A) cause
- (B) reason
- (C) manner
- (D) result

195. Choose the misspelt word
 (A) accomodation
 (B) superstitious
 (C) program
 (D) privilege
196. Choose the one which best expresses the meaning of the idiom/phrase in capitals.
 Many people CALLED on the minister when he was ill.
 (A) helped
 (B) surrounded
 (C) cursed
 (D) visited
197. Choose the one which can be substituted for 'A person who is unable to pay his debts'.
 (A) indebted
 (B) insolvent
 (C) introvert
 (D) illiterate

Directions (Qs. 198 to 200) : Read the following passage and answer these questions on the basis of the contents of the passage.

Motivating employees with traditional authority and financial incentives has become increasingly difficult as employees become economically secure and their dependency on any one particular organisation decreases. According to expectancy theorists, the motivation to work increases when an employee feels his performance is an instrument for obtaining desired rewards. Nevertheless, in many organisations today employees are entitled





to organisational rewards just by being employed. Unions, governmental regulations, and the nature of the job itself in some cases prevent the management from relating financial rewards to performance. People may be attracted to join and remain in organisations to receive organisational rewards, but being motivated to join an organisation is just the same as being motivated to exert effort in an organisation.

198. The result of the decreasing dependency of the employees on any one particular organisation is
 (A) employees depend more on any one organisation
 (B) it is easy to motivate the employees with cash incentives
 (C) it has become not so easy to motivate the staff with traditional authority
 (D) employees do not intend to become economically secure
199. The meaning of the word 'Nevertheless' in the passage is
 (A) Unless
 (B) However
 (C) Everless
 (D) Definitely
200. According to this passage, which of the following does not prevent the management from awarding cash incentives for improved performance?
 (A) Nature of the job
 (B) Trade union
 (C) Governmental rule
 (D) None of these

IMPORTANT INSTRUCTIONS TO CANDIDATES





उम्मीदवारों के लिए महत्वपूर्ण अनुदेश

11. This booklet contains 48 pages.
12. Please check all the pages of the Booklet carefully. In case of any defect, please ask the Invigilator for replacement of the Booklet.
13. **Directions :** Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken (●) appropriate circle A, B, C or D by Blue / Black Ball-Point Pen against the question concerned in the Answer-Sheet. (For V.H. candidates corresponding circle will be blackened by the scribe)
14. Mark your answer by shading the appropriate circle against each question. The circle should be shaded completely without leaving any space. The correct method of shading is given below.

Wrong Method 	Wrong Method 	Wrong Method 	Correct Method 
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The Candidate must mark his/her response after careful consideration.
15. There is only one correct answer to each question. You should blacken (●) the circle of the appropriate column, viz., A, B, C or D. If you blacken (●) more than one circle against any one question, the answer will be treated as wrong. If you wish to cancel any answer, you should completely erase that black mark in the circle in the Answer-sheet, and then blacken the circle of revised response.
16. A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
17. Use the space for rough work given in the Question Booklet only and not on the Answer-Sheet.
18. You are NOT required to mark your answers in this Booklet. All answers must be indicated in the Answer-Sheet only.

11. इस पुस्तिका में 48 पेज हैं।
12. इस पुस्तिका के सभी पृष्ठों का ध्यानपूर्वक निरीक्षण करें। यदि कोई दोष है, तो निरीक्षक को उसे बदलने के लिए कहें।
13. निर्देश : प्रत्येक प्रश्न अथवा प्रत्येक अपूर्ण कथन के बाद चार उत्तर अथवा पूरक कथन सुझाये गये हैं। प्रत्येक दशा में आपको किसी एक को चुनना है जो प्रश्न का सही उत्तर दे अथवा कथन को पूरा करे और आपको उत्तर-पत्रिका में उपयुक्त गोलाकार खाने A, B, C या D को नीला या काला बॉल-पॉइन्ट पेन से काला (●) करना है। (दृष्टिबाधित उम्मीदवारों के लिए संगत गोलाकार लिपिक द्वारा काला किया जाए)
14. प्रत्येक प्रश्न के सामने उचित वृत्त का चिन्हांकन करके अपना उत्तर लिखें। वृत्त को बिना कोई स्थान छोड़े चिन्हांकित करें। चिन्हांकित करने का सही तरीका नीचे दिया गया है।

गलत तरीका 	गलत तरीका 	गलत तरीका 	सही तरीका 
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अभ्यर्थी को अपना उत्तर ध्यान पूर्वक सोच विचार के उपरान्त चिन्हित करना चाहिए।
15. प्रत्येक प्रश्न का केवल एक ही सही उत्तर है। आपको समुचित कॉलम अर्थात् A, B, C या D के गोलाकार खाने को काला (●) करना है। यदि आप किसी प्रश्न के सामने एक से अधिक गोलाकार खाने को भरेंगे (●) तो आपका उत्तर गलत माना जायेगा। यदि आप किसी उत्तर को रद्द करना चाहते हैं तो आप उत्तर-पुस्तिका के उस गोलाकार खाने से काले निशान को पूरी तरह से मिटा दें और तब बदले हुए उत्तर के लिए गोलाकार खाने को काला कर दें।
16. ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक मशीन पढ़ेगी। यदि सूचना अपूर्ण है अथवा आवेदन पत्र में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी की अभ्यर्थिता निरस्त समझी जायेगी।
17. कच्चे कार्य के लिए केवल प्रश्न पत्र में दिए गये स्थान का प्रयोग करें। उत्तर-पुस्तिका पर कच्चा कार्य न करें।
18. इस पुस्तिका के अन्दर आपको उत्तर अंकित नहीं करने हैं। उत्तर केवल उत्तर-पत्रिका में ही दें।

Go through instructions given in Page No. 1 (Facing Page)

A*