ANNEXURE-II SYLLABUS FOR THE POST OF JLM IN TSSPDCL SCHEME OF EXAMINATION

Paper	Subject	No. of Questions	Duration (Minutes)	Maximum Marks
1.	I.T.I(Electrical Trade) and General Knowledge	80 Questions (I.T.I(Electrical Trade): 65 Questions and General Knowledge: 15 Questions)	120	80

PAPER A : I.T.I (Electrical Trade) – 65 Marks

1. Fundamentals of electricity: Electrical occupational safety, tools, Ohms law, Kirchoffs law, series, parallel, Kirchoffs law and star delta, problems – Electrostatics and capacitors. Earthing principles and methods of earthing.

2. Batteries: primary and secondary, lead acid cells, methods of charging - testing and application of batteries, invertors, battery chargers and maintenance

3. Magnetism: Magnetic materials and properties - laws of magnetism – electromagnetism, electromagnetic induction

4. Fundamentals of AC: Simple problems of AC fundamentals, power, power factor, single phase and three phase circuits

5. Basic Electronics: Electronic components, rectifiers, amplifiers, oscillators and power electronic components

6. DC Machines: construction, working principle and simple problems on DC generators and motors, speed control and applications of DC motors – windings

7. Transformers: construction, working principle, basic concepts and simple problems on transformers – windings – auto transformers, power transformers, CT & PT

8. AC Machines: basic concepts, construction principle and simple problems on three phase and single phase induction motor, universal motor, alternators, synchronous motors and their applications and windings - concept of power electronic drives

9. Electrical measurements –Different types of AC and DC measuring instruments, Domestic appliances and Illumination concepts - types of electric lamps

10. Electric Power generation- thermal, hydal and nuclear, transmission and distribution system – basic concepts, non-conventional energy sources.

PAPER B: GENERAL KNOWLEDGE - 15 Marks

- 1. Analytical and Numerical Ability.
- 2. Current affairs.
- 3. Consumer Relations.
- 4. General Science in everyday life.
- 5. Environmental Issues and Disaster Management.
- 6. History, Geography and Economy of India and Telangana.
- 7. History of Telangana and Telangana Movement.
- 8. Society, Culture, Heritage, Arts and Literature of Telangana.

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