JUNIOR ENGINEERS (CIVIL, ELECTRICAL) INDICATIVE EXAMINATION SYLLABUS

The standard of the questions will be approximately of the level of Diploma in Engineering (Civil/ Electrical) from a recognized Institute, Board or University recognized by All India Board of Technical Education. All the questions will be set in SI units. The details of the syllabus are given below:

JUNIOR ENGINEER (CIVIL)

- 1. Building Materials
- 2. Estimating, Costing and Valuation
- 3. Surveying
- 4. Soil Mechanics
- 5. Hydraulics
- 6. Transportation Engineering
- 7. Environmental Engineering
- 8. Structural Engineering
- 9. Theory of structures
- 10. Concrete Technology
- 11. RCC Design
- 12. Steel Design

JUNIOR ENGINEER (ELECTRICAL)

- 1. Circuit law
- 2. Magnetic Circuit
- 3. AC Fundamentals
- 4. Measurement and measuring instruments
- 5. Electrical Machines
- 6. Fractional Kilowatt Motors and Single Phase Induction Motors
- 7. Synchronous Machines
- 8. Generation, Transmission and Distribution
- 9. Estimation and costing
- 10. Utilization of Electrical Energy
- 11. Basic Electronics

QUESTION MATRIX

In this regard, as per the following scheme question papers are to be prepared and marks to be evaluated:

- 1. Total 120 nos. questions will be there. Total time for CBT will be 120 minutes.
- 2. There will be no negative marking. Each question will carry one mark.
- 3. 90 questions will be from Subject Knowledge as per syllabus already given.
- 4. 30 questions will be from General Awareness & Current Affairs, Quantitative Aptitude, Reasoning Ability and Verbal Comprehension.
- 5. The difficulty level should be moderate.