

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Technical Assistant (Civil)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under four Sections A, B, C & D, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A</u></b><br>Engineering Mechanics<br>Buildings Material and Construction<br>Surveying  | 25                         | 25                        |
| 2              | <b><u>Section B</u></b><br>Structural Analysis<br>Design of steel structures<br>Design of concrete structures   | 25                         | 25                        |
| 3              | <b><u>Section C</u></b><br>Transportation Engineering<br>Environmental Engineering<br>Geotechnical Engineering  | 25                         | 25                        |
| 4              | <b><u>Section D</u></b><br>Estimation, Costing & Evaluation<br>Construction Machinery and Project Management<br>Irrigation and Water Resource Engineering | 25                         | 25                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Technical Assistant (Mechanical/Electrical)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under two Sections A and B with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| Sr. No. | Name of the Subject  | Number of Questions | Weightage of marks |
|---------|--|---------------------|--------------------|
| 1       | <b><u>Section A (Common)</u></b><br>Engineering Mechanics<br>Fundamentals of Electrical Engineering<br>Fundamentals of Electronics & Telecommunication Engineering   | 25                  | 25                 |
| 2       | <b><u>Section B for Electrical</u></b><br>Electrical Machines<br>Electrical Measurements and Measuring Instruments<br>Electrical circuit analysis and synthesis<br>Electronic Devices and circuits<br>Analog and Digital communication<br>Power Electronics<br>Electrical Power<br>Switchgear and protection<br>Flexible AC Transmission system<br><br><b><u>OR</u></b><br><br><b><u>Section B for Mechanical</u></b><br>Electrical Technology<br>Engineering Measurements and Metrology<br>Applied Thermodynamics<br>Digital Electronics and microcontroller applications<br>Energy Conversion<br>Mechatronics<br>Refrigeration and Air conditioning<br>Automobile Engineering<br>CAD and FEA | 75                  | 75                 |
|         | <b>Total</b>   | <b>100</b>          | <b>100</b>         |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Technical Assistant (Computer/Electronics/Information Technology)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under two Sections A and B, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A (Common)</u></b><br>Fundamentals of Computer Engineering<br>Fundamentals of Electronics and Telecommunication Engineering<br>Fundamentals of Electrical Engineering<br>Operating Systems<br>Microprocessor & Interfacing  | 50                         | 50                        |
| 2              | <b><u>Section B for Computers</u></b><br>Computer Organisation<br>Database Management System<br>Web Technology<br>Device interface and PC Maintenance<br>Network Programming<br><br><b><u>OR</u></b><br><br><b><u>Section B for Electronics</u></b><br>Electronic Devices & Circuits<br>Analog Communication<br>Digital Communication<br>Digital signal processing<br>Linear In0tegrated Circuits<br><br><b><u>OR</u></b><br><br><b><u>Section B for IT</u></b><br>Computer Organisation<br>Database Management System<br>Web Technology<br>Computer Cryptography<br>Software testing & Quality Assurance | 50                         | 50                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Technical Assistant (Mining)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under four Sections A, B, C & D, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A</u></b><br>Engineering Mechanics<br>Elements of Mining Engineering<br>Fluid Mechanics and Machinery | 25                         | 25                        |
| 2              | <b><u>Section B</u></b><br>Mine Surveying<br>Mining Geology<br>Rock Mechanics and ground control                    | 25                         | 25                        |
| 3              | <b><u>Section C</u></b><br>Mining Machinery<br>Electrical Drives and Digital Electronics<br>Surface Mining          | 25                         | 25                        |
| 4              | <b><u>Section D</u></b><br>Mine Environment<br>Mine Disaster Management<br>Mine Management and Legislation          | 25                         | 25                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Junior Engineer(Civil)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under four Sections A, B, C & D, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A</u></b><br>Engineering Mechanics<br>Engineering Materials<br>Buildings Construction           | 25                         | 25                        |
| 2              | <b><u>Section B</u></b><br>Hydraulics<br>Concrete Technology<br>Surveying                                     | 25                         | 25                        |
| 3              | <b><u>Section C</u></b><br>Public Health Engineering<br>Transportation Engineering<br>Construction Management | 25                         | 25                        |
| 4              | <b><u>Section D</u></b><br>Design of RCC Structures<br>Design of steel Structures<br>Analysis of Structures   | 25                         | 25                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Junior Engineer(Mechanical/Electrical)**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under two Sections A and B, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A (Common)</u></b><br>Engineering Materials<br>Elements of Electrical Engineering<br>Elements of Mechanical Engineering   | 25                         | 25                        |
| 2              | <b><u>Section B for Electrical</u></b><br>Electrical Machines<br>Electrical Measurements and Instrumentation<br>Electronic Instrumentation<br>Circuit Theory<br>Distribution and Estimation<br>Switchgear and protection<br>Power Generation Transmission & Distribution<br><br><b><u>OR</u></b><br><b><u>Section B for Mechanical</u></b><br>Hydraulics Machinery<br>Engineering Metrology<br>Engineering Mechanics<br>Thermal Engineering<br>Manufacturing Process<br>Refrigeration and Air conditioning<br>CAD and CAM | 75                         | 75                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |

**Syllabus with Weightage of marks, for Written Examination Objective Paper for the post of Junior Engineer (Computer/Electronics/Information Technology))**

- The Written Examination objective Question Paper of 100 marks shall comprise of 100 Objective type questions under two Sections A and B, with 4 Multiple choices for each objective question.
- The total duration shall be 2 ½ hours.

| <b>Sr. No.</b> | <b>Name of the Subject</b>  | <b>Number of Questions</b> | <b>Weightage of marks</b> |
|----------------|---|----------------------------|---------------------------|
| 1              | <b><u>Section A (Common)</u></b><br>Engineering Materials<br>Basic Electrical Engineering<br>Basic Electronics Engineering  | 25                         | 25                        |
| 2              | <b><u>Section B for Computer / IT</u></b><br>Computer Hardware<br>Computer Organisation<br>Operating systems<br>Computer security<br>Network management<br>Internet Technology & Web Design<br><br><b><u>OR</u></b><br><br><b><u>Section B for Electronics</u></b><br>Electronics Circuit<br>Digital Electronics<br>Electronic Instrumentation<br>Power Electronics<br>Analog Communication<br>Electronic Measurement | 75                         | 75                        |
|                | <b>Total</b>  | <b>100</b>                 | <b>100</b>                |