

**STRUCTURE & SYLLABUS FOR ENTRANCE TEST-JUNIOR ENGINEERS (JE) IN THE DEPARTMENT OF WATER SUPPLY & SANITATION, PUNJAB**

**Important Instructions:**

- Written test will be of 180 minutes duration and shall contain 180 objective type questions (Multiple choice questions).
- All the questions shall be common to all.
- There shall be negative marking. 1/4<sup>th</sup> marks shall be deducted for the wrong answer.

**Structure of the test:**

1	General Studies	:	30 Questions
2	Mental Ability	:	30 Questions
3	Basic Computer applications	:	20 Questions
4	English, Engg & Bldg Drawing Physics, Chemistry	:	40 Questions
5	Technical Section	:	60 Questions

**Explanations:**

- 1 The technical section shall contain diploma level questions on following topics:

<ul style="list-style-type: none"><li>• Building Construction</li><li>• Surveying</li><li>• Fluid Mechanics</li><li>• Construction Material</li><li>• Environmental studies</li><li>• Concrete Technology</li><li>• Structural Mechanics</li><li>• Public Health, waste water, water supply</li><li>• Soil and foundation</li><li>• RCC</li><li>• Computer Applications in Civil Engg</li><li>• Pre-stressed concrete</li><li>• Quantity Survey &amp; Evaluation</li><li>• Construction Management and acts</li></ul>	<ul style="list-style-type: none"><li>• Workshop Techniques</li><li>• Thermodynamics</li><li>• Theory of Machines</li><li>• Refrigeration &amp; Air Conditioning</li><li>• Metrology &amp; Instruments</li><li>• Fundamental of Electrical Engineering</li><li>• Electrical Workshop</li><li>• Electrical Machines</li><li>• PC Maintenance &amp; Repair</li><li>• Non Conventional Energy Sources</li><li>• Digital Electronics</li></ul>
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- 2 Mental ability shall also include questions related to Mathematics
- 3 General Studies shall include Current events and questions relating to National and Punjab State on following topics :-  
(i) Art & culture (ii) Agriculture (iii) Topography (iv) Geography (v) Civics & Constitution of India (vi) Labour Laws (vii) Right to Information Act and (viii) Right to Service Act.