Syllabus:

Junior Engineer (Civil) (BPS-17)

Written Test Mechanics

* Written test will be Objective type only.
* Written test will be based on two parts viz General Ability and Subject Ability.
* It is mandatory to pass in both parts of the written test.
* Weightage, passing criteria and syllabus is explained below:

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| --- | --- | --- | --- | --- |
| **Sr.** | **Part** | **Weightage** | **Passing Marks**(minimum) | **Details** |
| 1. | **General Ability** | 17% (17 Questions) | 40 % (7/17) | Pakistan Studies, Islamic StudiesEthics/Islamic Studies, General Knowledge, Current Affairs |
| 2. | **Subject Ability** | 83% (83 Questions) | 50 %(42/83) | *(Syllabus details provided below)* |

Syllabus for Subject Ability

Under the Subject Ability segment, a candidate is expected to demonstrate his conceptual as well as professional ability on a specialized subject he/she has familiarized with during his/her academics as a student and professional career. Subjects are chosen as per advertised criteria. Syllabus for the above position is as under:

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| --- | --- | --- |
| Sr. | Core Area | Weightage / Questions |
| 1 | Civil Engineering Materials | **70%** |
| 2 | Engineering Drawing |
| 3 | Foundation Design & Engineering |
| 4 | Structural Analysis |
| 5 | Plain & Reinforced Concrete |
| 6 | Construction Engineering |
| 7 | Construction Management | **25%** |
| 8 | Transportation Planning & Engineering |
| 9 | Surveying & Levelling |
| 10 | Quantity Surveying & Estimation |
| 11 | Soil Mechanics | **05%** |
| 12 | Fluid Mechanics |
|  | **Total** | **100%** |

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