



राष्ट्रीय खेल विश्वविद्यालय, इम्फाल, मणिपुर
(केन्द्रीय विश्वविद्यालय)

भारत सरकार, युवा कार्यक्रम एवं खेल मंत्रालय

NATIONAL SPORTS UNIVERSITY, IMPHAL, MANIPUR

(A Central University)

Government of India, Ministry of Youth Affairs and Sports



**SCHEME OF EXAMINATION FOR CONTRACTUAL ENGAGEMENT TO THE
POST OF JUNIOR ENGINEER (CIVIL)**

The following shall be the Scheme of Examination, components of Written Test (Paper – I and Paper – II) and its syllabus for recruitment to the Post of Junior Engineer (Civil) on Contractual basis:

A. Scheme of the Examination

Written Test		
Paper -I (MCQ Type)	Time: 60 minutes	Max. Marks: 100
Paper-II Descriptive Type	Time: 30 minutes	Max. Marks: 25

B. Test Components:

Paper –I MCQ Type	Duration: 60 minutes	
	No. of Questions	Marks
(i) Building Materials & Construction: Bricks, cement, timber, paints, concrete technology, masonry, flooring, roofing, and finishing works.	7	14
(ii) Surveying: Chain surveying, compass surveying, levelling, contouring, total station, GPS, and layout maps.	5	10
(iii) Estimating, Costing & Valuation: Analysis of rates, bill of quantities (BOQ), valuation methods, CPWD specifications, tender documents, and contract	10	20
(iv) Structural Engineering & SOM: Stress & strain, shear force & bending moment, centroids, moment of inertia, design of RCC structures, steel beams, and slabs.	6	12
(v) Geotechnical Engineering: Soil properties, soil classification, compaction, bearing capacity of soil, and foundations.	10	20



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(vi)	Environmental & Water Supply Engineering: Quality of water, water supply systems, sewerage treatment, campus drainage systems, and plumbing.	5	10
(vii)	Transportation & Campus Infrastructure: Flexible and rigid pavements, internal campus road design, pathways, and parking layout standards.	7	14
TOTAL		50	100

Paper –II Descriptive Type		Duration: 30 minutes
		Marks
(i)	Quantity Estimation, BOQ Verification, Final Billing, & Financial Control <i>Focuses on measurement precision, financial auditing, contract variation management, and ensuring budget discipline under central government/university rules.</i>	10
(ii)	Quality Control, Testing, Defect Liability, & Safety Compliance <i>Focuses on material field testing, enforcing safety protocols, structural durability, and monitoring contractor accountability during the Defect Liability Period (DLP).</i>	15
TOTAL		25