



**ASSAM UNIVERSITY**  
(A Central University)  
Silchar 788011  
Assam, India

**অসম বিশ্ববিদ্যালয়**  
(এক কেন্দ্ৰীয় বিশ্ববিদ্যালয়)  
সিলচৰ ৭৮৮০১১  
অসম, ভাৰত

**NOTICE**

**Sub: List of provisionally shortlisted candidates for the post of Junior Engineer against the Employment Notification No. 2/2020 dtd. 28-05-2020.**

It is hereby notified for information of all concerned that the following candidates have been provisionally shortlisted for the post of Junior Engineer against the Employment Notification No. 2/2020 dated 28.05.2020.

A. Provisional list of shortlisted candidates against the Employment Notification No. 2/2020 dtd. 28.05.2020:

Sl. No.	Name	Remarks
1	SAPTARSHIESH CHOUDHURY	NIL
2	ABHISHEK ROY	NIL
3	MD KAUSAR KHAN	NIL
4	BHAGYASHRI DEURI	NIL
5	SHAH NEWAJ LASKAR	NIL
6	SAMRAT DEB	NIL
7	DEEP HAZAM	NIL
8	ROHIT BHATTACHARJEE	NIL
9	EJAJ AHMED LASKAR	NIL
10	IBADUR RAHMAN CHOUDHURY	NIL
11	RAMYAJIT CHAKRABORTY	NIL
12	DIPAK NUNIA	NIL
13	MASUM YADAV	NIL
14	MAUSHOMI DUTTA	NIL
15	ABUL HASSAN LASKAR	NIL

16	IMRAN HUSSAIN MAZUMDER	NIL
17	RUSTANA BEGUM LASKAR	NIL
18	SAUGAT DAS	NIL
19	PRASENJIT DAS	NIL
20	PROBAL SINHA	NIL
21	NIRUPAM DEB	NIL
22	KAWSAR AHMED BARBHUIYA	NIL
23	HASINA YASMIN MAZUMDER	NIL
24	ABISHAK BAIDYA	NIL
25	RAJIB LOCHAN BAIDYA	NIL
26	NASIM AKTAR LASKAR	NIL
27	NASIM AHMED LASKAR	NIL
28	MUJIBUR RAHMAN LASKAR	NIL
29	SHAHID BABLU MANIYAR	NIL
30	HRITURAJ DEY	NIL
31	SAURAB KAR PURKAYASTHA	NIL
32	LIBON TERONPI	NIL
33	BIPRASISH PAUL CHOUDHURY	NIL
34	SHASHI BHUSAN DAS	NIL
35	SANKARSHAN DEB	NIL
36	SUBHOM NATH	NIL
37	MUKTESWAR PAUL	NIL
38	AMIMANGSHU MOHANTA	NIL
39	TAHERA BEGUM BARBHUIYA	NIL
40	KAPIL AHMED BARBHUIYA	NIL
41	GOPI MOHAN RAY	NIL
42	MAHASHIN AKRAM MAZUMDER	NIL
43	SANDIPAN DAS	NIL

44	JAYATRI CHOWDHURY	NIL
45	AHMED ISLAM MAZARBHUIYA	NIL
46	SAHIDA BEGUM MAZARBHUIYA	NIL
47	GOURAB DAS	NIL
48	DEBANANDA DEORI	NIL
49	NASIM AHMED LASKAR	NIL
50	VIVEK LAISHRAM	NIL
51	SUSMITA MANDAL	NIL
52	MUMINA AKTHER CHOUDHURY	NIL
53	JISHAN AHMED	NIL
54	DIWAKAR KURMI	NIL
55	VESIREDDY JEEVAN REDDY	NIL

B. List of candidates who are not shortlisted against the Notification No. 2/2020 dtd. 28.05.2020:

Sl. No.	Name	Remarks
1	AAKASH BHARDWAJ	Rejected due to non-payment of Fee
2	RUPAK DAS	Rejected due to non-payment of Fee
3	SANDIPAN ACHARJEE	Rejected due to over age
4	BUDDHA CHANDRA SINHA	Rejected due to over age
5	KAJOKSO KATHARPI	Rejected as the application form is not in proper format as per Advt.
6	SURYA M	Rejected due to non-fulfilment of requisite qualification as per Advt.
7	ARNAB KUMAR SINHA	Rejected due to over age
8	DEBORAJ BANIK	Rejected due to over age

The shortlisted candidates shall have to appear a written test as per following schedule :

Date of Examination	Paper	Time
27-02-2021	I	2.30 P.M. to 4.30 P.M
01-03-2021	II	12.00 Noon to 2.00 P.M.

All the shortlisted candidates are to **collect their Admit Card** from the examination centre on the **day of examination (27<sup>th</sup> February, 2021)** one hour before commencement

of written test. The candidates must adhere to the following guidelines while appearing in the examination centre:

1. Only shortlisted Candidates with valid ID proof (ID proof, such as, Voter card, Pan card, Driving licence, Adhar card, Passport and any other identity proof issued by central/state/Govt. autonomous institute) will be allowed to enter in the examination centre.
2. The candidates have to wear face mask during the time of examination and follow Covid-19 protocol/SoP and any other advisory issued by the Government from time to time.
3. All electronic items including mobile phone, pagers, calculator, tab, pendrive, Bluetooth devices wrist watches, clocks etc. of any kind are strictly prohibited in the examination hall.
4. Candidates shall have to bring blue/black pointed pen for writing in the examination.

Further it is informed that there will be bus service for plying the candidates from University main gate to **Triguna Sen School of Technology**

Venue of written examination and seat plan shall be displayed in front of the main gate of the University.

Canvassing in favour of candidature, both direct and indirect, is strictly prohibited. Violation of this code of conduct will be brought to the notice of the Selection Committees; besides the University reserves the right to cancel candidature of such offending candidate at any point of time if there is sufficient evidence of canvassing.

The detailed syllabus for written test is as follows –

Paper	Subject	Maximum Marks	Total Duration
I (Objective type)	a)General Intelligence - b)General Awareness - c)General Engineering – (as per Annexure-A)	50 50 100	2 Hours (2 hours and 45 minutes for PWD candidates)
II (Descriptive type)	General Engineering (as per Annexure-B)	100	2 Hours (2 hours and 45 minutes for PWD candidates)

Any change/update in this regard will be notified in the University website.

Enclo : Annexure-A &B

Sd/-

Registrar

No. 102/4/2021-RECT

12<sup>th</sup>February, 2021

Copy to: The Director, Computer Centre for necessary action for uploading the notification in the university web site.

Sd/-  
Registrar

**JUNIOR ENGINEERS (CIVIL, MECHANICAL, ELECTRICAL, and  
QUANTITY SURVEYING & CONTRACT) EXAMINATION**

Indicative Syllabus

Objective

= 200

The standard of the questions in Engineering subjects will be approximately of the level of Diploma in Engineering (Civil/ Electrical/ Mechanical/Electronics) 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:

Paper-I - 50

(i) General Intelligence & Reasoning: The Syllabus for General Intelligence would include questions of both verbal and non-verbal type. The test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships, arithmetical computations and other analytical functions.

(ii) General Awareness:<sup>-50</sup> Questions will be aimed at testing the candidate's general awareness of the environment around him/her and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity and Scientific Research, etc. These questions will be such that they do not require a special study of any discipline.

(iii) General Engineering (Civil and Structural), (Electrical & Mechanical): 100

Part-I

## A. Civil Engineering

Building Materials, Estimating, Costing and Valuation, Surveying, Soil Mechanics, Hydraulics, Irrigation Engineering, Transportation Engineering, Environmental Engineering.

Structural Engineering: Theory of Structures, Concrete Technology, RCC Design, Steel Design.

Part-B

## Electrical Engineering

Basic concepts, Circuit law, Magnetic Circuit, AC Fundamentals, Measurement and Measuring instruments, Electrical Machines, Fractional Kilowatt Motors and single phase induction Motors, Synchronous Machines, Generation, Transmission and Distribution, Estimation and Costing, Utilization and Electrical Energy, Basic Electronics.

Part-C

Mechanical Engineering - Theory of Machines and Machine Design, Engineering Mechanics and Strength of Materials,

S.D. 22.01.19

Properties of Pure Substances, 1<sup>st</sup> Law of Thermodynamics, 2<sup>nd</sup> Law of Thermodynamics, Air standard Cycles for IC Engines, IC Engine Performance, IC Engines Combustion, IC Engine Cooling & Lubrication, Rankine cycle of System, Boilers, Classification, Specification, Fitting & Accessories, Air Compressors & their cycles, Refrigeration cycles, Principle of Refrigeration Plant, Nozzles & Steam Turbines.

Properties & Classification of Fluids, Fluid Statics, Measurement of Fluid Pressure, Fluid kinematics, Dynamics of Ideal fluids, Measurement of Flow rate, basic principles, Hydraulic Turbines, Centrifugal Pumps, Classification of steels.

## Paper II

### Part-A : Civil & Structural Engineering

descriptive

#### Civil Engineering

✓ Building Materials : Physical and Chemical properties, classification, standard tests, uses and manufacture/quarrying of materials e.g. building stones, silicate based materials, cement (Portland), asbestos products, timber and wood based products, laminates, bituminous materials, paints, varnishes.

✓ Estimating, Costing and Valuation: estimate, glossary of technical terms, analysis of rates, methods and unit of measurement, Items of work – earthwork, Brick work (Modular & Traditional bricks), RCC work, Shuttering, Timber work, Painting, Flooring, Plastering. Boundary wall, Brick building, Water Tank, Septic tank, Bar bending schedule, Centre line method, Mid-section formula, Trapezoidal formula, Simpson's rule. Cost estimate of Septic tank, flexible pavements, Tube well, isolates and combined footings, Steel Truss, Piles and pile-caps. Valuation – Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.

✓ Surveying : Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Levelling, Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometric survey, curve setting, earth work calculation, advanced surveying equipment.

✓ Soil Mechanics : Origin of soil, phase diagram, Definitions-void ratio, porosity, degree of saturation, water content, specific gravity of soil grains, unit weights, density index and interrelationship of different parameters, Grain size distribution curves and their uses. Index properties of soils, Atterberg's limits, ISI soil classification and plasticity chart. Permeability of soil, coefficient of permeability, determination of coefficient of permeability, Unconfined and confined aquifers, effective stress, quick sand, consolidation of soils, Principles of consolidation, degree of consolidation, pre-consolidation pressure, normally consolidated soil, e-log p curve, computation of ultimate settlement. Shear strength of soils, direct shear test, Vane shear test, Triaxial test. Soil compaction, Laboratory compaction test, Maximum dry density and optimum moisture content, earth pressure theories, active and passive earth pressures, Bearing capacity of soils, plate load test, standard penetration test.

✓ Hydraulics : Fluid properties, hydrostatics, measurements of flow, Bernoulli's theorem and its application, flow through pipes, flow in open channels, weirs, flumes, spillways, pumps and turbines.

ANON

✓ Irrigation Engineering: Definition, necessity, benefits, 2II effects of irrigation, types and methods of irrigation, Hydrology – Measurement of rainfall, run off coefficient, rain gauge, losses from precipitation – evaporation, infiltration, etc. Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies. Different type of canals, types of canal irrigation, loss of water in canals. Canal lining – types and advantages. Shallow and deep to wells, yield from a well. Weir and barrage, Failure of weirs and permeable foundation, Slit and Scour, Kennedy's theory of critical velocity. Lacey's theory of uniform flow. Definition of flood, causes and effects, methods of flood control, water logging, preventive measure. Land reclamation, Characteristics of affecting fertility of soils, purposes, methods, description of land and reclamation processes. Major irrigation projects in India.

✓ Transportation Engineering: Highway Engineering – cross sectional elements, geometric design, types of pavements, pavement materials – aggregates and bitumen, different tests, Design of flexible and rigid pavements – Water Bound Macadam (WBM) and Wet Mix Macadam (WMM), Gravel Road, Bituminous construction, Rigid pavement joint, pavement maintenance, Highway drainage, Railway Engineering- Components of permanent way – sleepers, ballast, fixtures and fastening, track geometry, points and crossings, track junction, stations and yards. Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety.

✓ Environmental Engineering: Quality of water, source of water supply, purification of water, distribution of water, need of sanitation, sewerage systems, circular sewer, oval sewer, sewer appurtenances, sewage treatments. Surface water drainage. Solid waste management – types, effects, engineered management system. Air pollution – pollutants, causes, effects, control. Noise pollution – cause, health effects, control.

### ✓ Structural Engineering

✓ Theory of structures: Elasticity constants, types of beams – determinate and indeterminate, bending moment and shear force diagrams of simply supported, cantilever and over hanging beams. Moment of area and moment of inertia for rectangular & circular sections, bending moment and shear stress for tee, channel and compound sections, chimneys, dams and retaining walls, eccentric loads, slope deflection of simply supported and cantilever beams, critical load and columns, Torsion of circular section.

✓ Concrete Technology: Properties, Advantages and uses of concrete, cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete, quality control of concrete, hot weather and cold weather concreting, repair and maintenance of concrete structures.

✓ RCC Design: RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and double reinforced beams, cantilever beams. T-beams, lintels. One way and two way slabs, isolated footings. Reinforced brick works, columns, staircases, retaining wall, water tanks (RCC design questions may be based on both Limit State and Working Stress methods).

✓ Steel Design: Steel design and construction of steel columns, beams roof trusses plate girders.

### Part-B (Electrical Engineering):

*Signature*