



অসম লোকসেৱা আয়োগ

ASSAM PUBLIC SERVICE COMMISSION

Jawaharnagar, Khanapara, Guwahati-781022.

SYLLABUS

(Bachelor Degree Standard)

OMR (based) Screening Test for recruitment to the post of **Urban Technical Officer (Junior Grade-III) - Electrical Engineer** as per Assam Urban Engineering Service cadre under Department of Housing & Urban Affairs, Govt. of Assam (Advt. No.29/2025 dated 30.08.2025)

SUBJECT: ELECTRICAL ENGINEERING

(Multiple Choice Objective Type Questions)

Full Marks:100

Time: 2 (two) hours

Primary and Secondary cell, Dry-accumulators, Solar Cells, Steady State Analysis of D.C and A.C Networks, Network Theorems, Network Functions, Laplace techniques, transient response, frequency response, three-phase network, inductively couple circuits.

Electrostatics and magneto static field analysis, Maxwell's equations, Wave equations and Electromagnetic Waves.

Basic Methods of measurement, Standards, error analysis, indicating instruments, Cathode-ray oscilloscope, measurement of voltage, current, power resistance, capacitance, frequency, time and flux.

Safety precautions, Power & Energy, Condensers, D.C Generators, D.C Motors, House wiring (Both Surface & recess), Transformers, Alternators, A.C. Three phase & single phase motors, synchronous motors, illumination (specially LED & Solar), Generation, Transmission & Distribution of Electricity; Switch gear & Protection such as (a) Vertical And Horizontal DB (b) MCB (c) RCCB (d) ELCB (e) MCCB (f) RCBO (g) Change over switch (h) Air Circuit Breaker ; Earthing, Underground cable (Both LT & HT), Lift, Inverter & U.P.S., Compact Sub-Station.

Enul
4/9/25

Principal Controller of Examinations,
Assam Public Service Commission,
Jawaharnagar, Khanapara, Guwahati-781022