

BOB SO - Technical Manager - Electrical Engineer 2026

Sample Questions: 10 | Sections: 10

Section overview

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Syllogism

Q.1 | 1 question

- Q.1** Statements: No bat is a ball. Some balls are wickets. All wickets are stumps.
Conclusions: I. Some stumps are balls. II. Some wickets are not bats.
- (A) Both I and II follow (B) Only I follows
(C) Only II follows (D) Neither I nor II follows

Error Detection

Q.2 | 1 question

- Q.2** The manager told the clerk that he should send the file to I.
- (A) The manager told (B) the clerk that he
(C) should send the (D) file to I.

Circuit Theory

Q.3 | 1 question

- Q.3** A PMMC voltmeter with a full-wave rectifier is calibrated in RMS for a sine wave but responds to the average value. It misreads a non-sinusoidal wave because:
- (A) the rectifier doubles the peak value of the wave
 - (B) PMMC instruments respond to the peak value alone
 - (C) the ratio of RMS to average value differs from 1.11
 - (D) the scale is marked in average values of the wave

Power Systems and Distribution

Q.4 | 1 question

- Q.4** Increasing the spacing between the conductors of an overhead line:
- (A) decreases inductance and increases capacitance
 - (B) increases inductance and decreases capacitance
 - (C) increases both the inductance and the capacitance
 - (D) decreases both inductance and capacitance

Switchgear and Protection

Q.5 | 1 question

- Q.5** The breaking capacity of a circuit breaker should be:
- (A) at least equal to the full-load current of the circuit
 - (B) at most equal to the short-time rating of the cable
 - (C) at least equal to the prospective fault current there
 - (D) at most equal to the rated voltage of the busbar

Earthing and Safety

Q.6 | 1 question

- Q.6** The purpose of equipotential bonding in a building is to:
- (A) raise the touch voltage between all accessible metal surfaces
 - (B) reduce the current carried by the neutral conductor itself
 - (C) remove the need for any protective devices in the circuit
 - (D) keep exposed metal parts at nearly equal potential in a fault

Wiring and Load Estimation

Q.7 | 1 question

Q.7 A 150 m cable run is laid on trays supplied in 6 m lengths. The number of tray sections needed, with no wastage, is:

- (A) 20 (B) 22 (C) 24 (D) 25

Lighting and Energy Conservation

Q.8 | 1 question

Q.8 A point source of 1200 cd hangs 4 m directly above a working plane. The illuminance directly below is:

- (A) 300 lux (B) 75 lux (C) 150 lux (D) 4800 lux

DG UPS and ATS

Q.9 | 1 question

Q.9 When a DG set is connected through an ATS, a 4-pole switch is used to:

- (A) avoid the neutral being earthed at two sources at once
- (B) raise the fault level on the DG standby supply side
- (C) allow the DG to run without any earth connection at all
- (D) provide an extra phase for single-phase lighting loads

Project Management and Estimation

Q.10 | 1 question

Q.10 The defect liability period of a contract begins from:

- (A) the certified date of completion of the work
- (B) the date on which the tender is first invited
- (C) the date on which the work order is issued
- (D) the date on which the final bill is paid

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