

BOB SO - Technical Senior Manager - Electrical Engineer 2026

Sample Questions: 10 | Sections: 10

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Syllogism

Q.1 | 1 question

- Q.1** Statements: All pens are books. All books are tables.
Conclusions: I. All pens are tables.
II. Some tables are pens.
- (A) Only II follows (B) Both I and II follow
(C) Neither I nor II follows (D) Only I follows

Spotting Errors

Q.2 | 1 question

- Q.2** Identify the part with an error: By the time the auditors arrived, the branch manager already submitted the revised report to the head office.
- (A) By the time the auditors arrived (B) the revised report to the head office
(C) the branch manager already submitted (D) No error

Percentage Ratio and Proportion

Q.3 | 1 question

- Q.3** A and B invest Rs 30,000 and Rs 45,000 respectively for a year. C joins after 6 months with Rs 60,000. Out of a yearly profit of Rs 2,10,000, what is C's share?
- (A) Rs 84,000 (B) Rs 93,333 (C) Rs 60,000 (D) Rs 70,000

Power Systems

Q.4 | 1 question

- Q.4** Which measure improves the efficiency of the Rankine cycle in a thermal power station?
- (A) Adding reheat and regenerative heaters (B) Lowering the boiler operating pressure
(C) Increasing the condenser back pressure (D) Reducing the steam superheat temperature

Electrical Machines

Q.5 | 1 question

- Q.5** An over-excited synchronous motor operates at
- (A) unity power factor irrespective of the load.
(B) lagging power factor, absorbing reactive power.
(C) zero power factor with no reactive power flow.
(D) leading power factor, supplying reactive power.

Building Electrical Installations and Wiring

Q.6 | 1 question

- Q.6** Busbar trunking is preferred for rising mains in high-rise buildings because it
- (A) is cheaper than cables for every current rating in use.
(B) carries large currents compactly with floor tap-offs.
(C) removes the need for any protective devices.
(D) needs no earthing arrangement at any section.

Switchgear and Protection

Q.7 | 1 question

- Q.7** The fusing factor of a fuse is
- (A) minimum fusing current divided by current rating.
(B) prospective current divided by rated current.
(C) breaking capacity divided by rated voltage.
(D) current rating divided by minimum fusing current.

HVAC UPS and DG Systems

Q.8 | 1 question

- Q.8** In a variable air volume (VAV) system, cooling to a zone is varied by
- (A) varying supply air temperature at constant volume.
 - (B) switching the chiller on and off at each zone.
 - (C) changing the refrigerant charge in each room unit at night.
 - (D) modulating supply air volume at constant temperature.

Energy Management and Auditing

Q.9 | 1 question

- Q.9** The fundamental current is 50 A with 3rd and 5th harmonics of 15 A and 20 A. What is the current THD?
- (A) 70% (B) 25% (C) 50% (D) 35%

Electrical Safety and Maintenance

Q.10 | 1 question

- Q.10** Which extinguisher is suitable for fires involving live electrical equipment?
- (A) Foam-type extinguisher (B) Water-type extinguisher
- (C) Soda-acid extinguisher (D) Carbon dioxide extinguisher

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