

BOB SO - Technical Officer - Electrical Engineer 2026

Sample Questions: 10 | Sections: 9

Section overview

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Reasoning Ability

Q.1-2 | 2 questions

- Q.1** In a code, 'sun moon star' is written 'ka ne zo', 'star light sky' is written 'zo pi du' and 'moon sky night' is written 'ne du ra'. Which code word means 'light'?
- (A) ra (B) pi (C) ka (D) zo
- Q.2** Ravi walks 10 m east, turns right and walks 5 m, turns right again and walks 10 m, and finally turns left. Which direction is he facing now?
- (A) West (B) East (C) North (D) South

English Language

Q.3 | 1 question

- Q.3** Find the part that contains an error.
By the time the inspector arrived, | the staff has already | switched off the main panel | at the branch.
- (A) the staff has already (B) switched off the main panel
(C) at the branch (D) By the time the inspector arrived

Quantitative Aptitude

Q.4 | 1 question

Q.4 A cylindrical water tank has radius 7 m and height 10 m. Using $\pi = \frac{22}{7}$, what is its capacity in cubic metres?

- (A) 1078 (B) 1540 (C) 770 (D) 3080

Basic Electrical Engineering

Q.5 | 1 question

Q.5 A load draws 6 kW of real power at 0.6 power factor lagging. What is its reactive power?

- (A) 8 kvar (B) 10 kvar (C) 4.8 kvar (D) 6 kvar

Electrical Machines

Q.6 | 1 question

Q.6 What is the synchronous speed of a 6-pole machine supplied at 50 Hz?

- (A) 1500 rpm (B) 1000 rpm (C) 3000 rpm (D) 750 rpm

Power Systems and Distribution

Q.7 | 1 question

Q.7 A potential transformer differs from a power transformer because it is

- (A) connected in series with the line conductor
(B) built for accurate voltage ratio at low burden
(C) operated with its secondary kept open-circuited
(D) designed for heavy load currents with high losses

Electrical Installations and Building Services

Q.8 | 1 question

Q.8 In an online UPS, the load is

- (A) fed directly from the mains until a failure
(B) fed from the battery bank without a rectifier
(C) always fed through the inverter output
(D) isolated from the inverter by a bypass line

Illumination and Energy Management

Q.9 | 1 question

- Q.9** The SI unit of luminous intensity is the
- (A) candela (B) lambert (C) lumen (D) lux

Project Execution and Estimation

Q.10 | 1 question

- Q.10** A bill of quantities (BOQ) lists
- (A) only the names of contractors and their bids
- (B) items of work with quantities, units and rates
- (C) only a work schedule with activity dates
- (D) only the safety rules to be followed at site

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