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SSC JE Paper 1 - Electrical Engineering 2026

Sample Questions: 10

Basic Concepts

Q.1. Energy stored in a 4 H inductor carrying 3 A is:

- (A) 36 J
- (B) 9 J
- (C) 12 J
- (D) 18 J

Circuit Laws and Network Theorems

Q.2. The algebraic sum of all voltages around any closed loop of a circuit is:

- (A) Zero
- (B) Infinite
- (C) Negative one
- (D) Unity

Magnetic Circuits

Q.3. Two coupled coils of 2 H and 4 H have mutual inductance 2 H. Connected in series aiding, the total inductance is:

- (A) 10 H
- (B) 6 H
- (C) 2 H
- (D) 8 H

AC Fundamentals

Q.4. A series circuit has $L = 100 \text{ mH}$ and $C = 1 \mu\text{F}$. Its resonant frequency is about:

- (A) 80 Hz
- (B) 1007 Hz
- (C) 503 Hz
- (D) 3162 Hz

Measurement and Measuring Instruments

Q.5. An energy meter has a constant of 3000 revolutions per kWh. The disc makes 300 revolutions. The energy recorded is:

- (A) 0.2 kWh
- (B) 100 kWh
- (C) 0.1 kWh
- (D) 10 kWh

DC Machines

Q.6. In a DC motor the back emf is greatest when the motor is:

- (A) Running at no load
- (B) Being started
- (C) Heavily overloaded
- (D) Stalled

Transformers

Q.7. The no-load current of a transformer is typically what fraction of the full-load current?

- (A) 3 to 5%
- (B) 40 to 50%
- (C) 20 to 30%
- (D) 80 to 90%

Synchronous Machines

Q.8. A synchroscope shows the:

- (A) Speed of the steam turbine
- (B) Power factor of the incoming set
- (C) Frequency and phase relation
- (D) Excitation level of the field

Transmission and Distribution

Q.9. A fuse in a circuit protects against:

- (A) Phase reversal
- (B) Under-frequency
- (C) Overcurrent
- (D) Overvoltage

Utilization of Electrical Energy

Q.10. According to Faraday's first law of electrolysis, the mass deposited is proportional to:

- (A) Volume of electrolyte
- (B) Charge passed in the bath
- (C) Square of the current
- (D) Gap between electrodes

Prepared by **GP Adda**.

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