

QUESTION BANK ON BASIC ELECTRICAL ENGINEERING

(COMMON FOR ALL ENGINEERING BRANCH 1st YEAR)



PREPARED BY

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QUESTIONS BANK OF

BASIC ELECTRICAL ENGINEERING

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2 marks questions.

1. Define current.
2. What is electrical load?
3. State Ohm's law.
4. Define power and write down its unit.
5. What is amplitude?
6. Define KVL
7. Define KCL
8. Operating principle of DC generator.
9. Define frequency and write down its unit.
10. What is RMS value?
11. Define amplitude factor and form factor.
12. Operating principle of DC motor.
13. Define Power factor.
14. What is the use of commutator?
15. Define lumen.
16. What is the use of economiser?

5 marks questions.

1. Differentiate between AC and DC.
2. Derive the relation between current and voltage in pure capacitor circuit.
3. Derive the relation between current and voltage in pure inductor circuit.
4. Explain Power triangle.
5. Explain impedance triangle.
6. Classify of DC generator.
7. Explain different types of torque in measuring instruments.
8. Write the principle and construction of filament lamp.
9. Write the principle and construction of fluorescent lamp.
10. Write the principle and construction of LED bulb.

10 marks questions

1. Explain in details about the hydroelectric power plant.
2. Explain in details about the thermal power plant.
3. Explain in details about the nuclear power plant.
4. Write down the main parts of DC machine with diagram.
5. What are the types of wiring in domestic installation?
6. A household having three fans of 150 watt each running 10 hours per day, five LED bulbs of 20 watt each glowing 16 hours per day, one TV of 60 watt operation for 6 hours per day, one pump of 1 KW running 1 hour per day. Calculate the electric bill for the month of November if unit price is 4 rupees.