

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

Question Bank (I-Scheme)

Name of subject: Elements of Electrical Engg.
Subject code: 22215

Unit Test :II
Course : EJ/CM/IF
Semester: II

CHAPTER-4(Transformer and DC Motor)

(2Marks)

1. State working principle of transformer.
2. Write two applications of D.C. series motor.
3. Write two applications of Compound DC motors.

(4 Marks)

4. List the main parts of D.C. motor. Give the function of any two parts.
5. Compare auto transformer with two winding transformer. (Any four Points)
6. Draw a schematic diagram of long shunt D.C. compound motor. Give one application.
7. 20kVA, 3300/ 240 V, 50 Hz single phase transformer has 80 turns on secondary winding. Calculate no of primary winding turns, full load primary and secondary currents and maximum value of flux in the core.

CHAPTER-5(Fractional Horse Power Motors)

(2Marks)

8. List different types of stepper motor. State one application of stepper motor.
9. Draw schematic diagram of capacitor start capacitor run induction motor.
10. Give any two applications of capacitor start capacitor run induction motor.
11. Compare polyphase induction motor and single phase induction motor.

(4 Marks)

12. Draw and explain split phase induction motor.
13. Explain in brief the working of universal motor.
14. With a neat sketch give the working of shaded pole induction motor.

CHAPTER-6(Protective Devices and Switchgear)

(2Marks)

15. State function of ELCB.
16. Give the function of fuse.
17. Give the function of switch.
18. Write two applications of Fuse.

(4 Marks)

19. Give the working of MCCB.
20. What is earthing? Give the importance of earthing.
21. Write two applications of each of the following: (i) MCB (ii) MCCB.
