

Q.No.	Question
1	Explain construction features of transformer.
2	Explain working principle of transformer.
3	Explain the role of transformer in power system.
4	Explain current transformer and potential transformer.
5	Discuss the applications of instrument transformers in details.
6	Explain construction features of d.c. machine.
7	Explain working principle of d.c. motor.
8	Compare d.c. generator with d.c.motor.
9	Explain types of d.c.motors.
10	Discuss electromechanical conversion for electrical machines.
11	Explain the characteristics of d.c.generators.
12	Explain voltage built-up process in d.c.generator.
13	Derive E.M.F. equation of d.c.generator.
14	Discuss characteristics of d.c. shunt motor.
15	Discuss characteristics of d.c. series motor.
16	Explain the role of back emf in d.c.motor.
17	Explain three point starter used for d.c.shunt motor.
18	Explain four point starter used for d.c.shunt motor.
19	Explain methods of speed control for d.c.motors.
20	Explain characteristics of d.c. compound motors.
21	Explain no load characteristics of 1-phase transformer..
22	Explain load characteristics of 1-phase transformer.
23	Explain regulation and its causes in transformer.
24	Explain various types of losses occur in transformer.
25	Explain ward leonard method for speed control of d.c. motor.
26	Explain the applications of d.c.generators.
27	Explain the no load test in 1-phase transformer.
28	Explain the short circuit test in 1-phase transformer.
29	Explain the various connections for 3-phase transformer.
30	Explain the armature reaction in d.c.machines.
31	Explain the condition for maximum efficiency in d.c.generator.
32	Explain the condition for maximum power in d.c.motor.
33	Explain necessity of starter in d.c. motor.
34	Compare 1-phase transformer with 3-phase transformer.
35	Explain the applications of transformer.
36	Derive of torque equation for d.c.motor.
37	Explain the concept of static speed control concept of d.c.motors.
38	Explain dummy coil importance in d.c. machines.
39	Compare lap winding with lap winding in d.c. machines.
40	Explain the process of commutation in d.c. generator.

