

ES-1

18/A/C/S-3/4/E

Booklet Series -A

033/231

PAPER – I
ELECTRICIAN
(THEORY)
SEMESTER – III

TIME: 3 HRS.

MARKS: 150

Note: Attempt all the questions.

All questions carry equal marks.

This paper carries negative marking. 25% marks will be deducted for each wrong answer.

Choose the correct answers.

1. Rotary convertor is generally available in _____
a) Single phase
b) Three phase
c) Both (a) & (b)
d) Twelve phase
2. Mercury arc rectifier anode is made up of _____
a) Carbon
b) Graphite
c) Both (a) & (b)
d) None of these
3. _____ is also known as hot cathode rectifier.
a) Copper oxide rectifier
b) Tungsten bulb rectifier
c) Mercury arc rectifier
d) None of these
4. Machine which converts A.C into D.C is known as _____
a) Converter
b) Inverter
c) Both (a) & (b)
d) None of these
5. In a full wave rectifier, ripple frequency is equal to _____
a) $2 f$ input
b) $3 f$ input
c) Both (a) & (b)
d) None of these
6. Which method is used to make a full wave rectifier?
a) Bridge method
b) Center tap method
c) Both (a) & (b)
d) None of these
7. Rectification is of how many types _____
a) One
b) Two
c) Three
d) Four

8. The supply in Growler is _____
a) DC
b) AC
c) Both (a) & (b)
d) None of these
9. The number of coils per group in balanced winding is _____
a) Same
b) Unequal
c) Both (a) & (b)
d) None of these
10. The mostly used winding for rewinding is _____
a) Basket winding
b) Chain winding
c) Concentric winding
d) None of these
11. For earth with testing volt meter when connected to commutator segment and body of an armature, the growler is connected to A.C. supply. The milli voltmeter should read _____.
a) No reading
b) Low reading
c) Infinity
d) More reading
12. The number of slots with respect of number of coils in double layer winding is -
a) Same
b) Less
c) More than one
d) Half
13. Pitch factor in full pitch winding is _____
a) One
b) Less than one
c) More than one
d) None of these
14. The numbers of windings in double cage induction motors _____
a) One
b) Two
c) Three
d) Four
15. Which type of pitch is commonly used due to its advantages during rewinding _____?
a) Short pitch
b) Long pitch
c) Full pitch
d) None of these

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35. The main function of Choke in a fluorescent tube is _____
 - a) Induce surge voltage at the time of starting
 - b) To drop the voltage
 - c) To improve the P.F
 - d) To induce high voltage and limit the current
36. In running condition, voltage across starter is -
 - a) 110 V
 - b) 180 V
 - c) 220 V
 - d) Zero
37. The light efficiency of fluorescent tube is -
 - a) 40 lumen/watts
 - b) 45 lumen/watts
 - c) 60 lumen/watts
 - d) 75 lumen/watts
38. _____ lamp gives direct light when its filament is heated.
 - a) Incandescent lamp
 - b) Gas discharge lamp
 - c) Neon lamp
 - d) Arc lamp
39. The diameter of 40 Watt tube is _____
 - a) 12mm
 - b) 25 mm
 - c) 30mm
 - d) 38 mm
40. Gas filled in a tube starter is-
 - a) Argon
 - b) Helium
 - c) Neon
 - d) None of these
41. Condenser is used in tube circuit to _____
 - a) To improve the P.F
 - b) To improve the voltage
 - c) To safeguard the tube
 - d) To give full light
42. The inner side colour of the Reflector is _____
 - a) Black
 - b) White
 - c) Any Dark
 - d) None of these
43. In a power house, Illumination should be approximately _____
 - a) 20-40 Lumen/M²
 - b) 80-90 Lumen/M²
 - c) 100-150 Lumen/M²
 - d) 200-250 Lumen/M²

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