

18/B/C/S-2/4/E

-2-

9. The function of the _____ is to maintain the oil level in the transformer tank as the oil expands or contracts.
 - a) Breather
 - b) Explosion vent
 - c) Conservator
 - d) Tap changer
10. When both deflecting controlling torque act and balance, the pointer of an indicating instrument comes to-
 - a) Mid position
 - b) Maximum position
 - c) Three fourth position
 - d) Rest
11. PMMC instrument is used for-
 - a) DC measurement
 - b) AC Measurement
 - c) Both AC/DC measurement
 - d) Calibration
12. The anode mud in a cell is collected-
 - a) Below anode rod
 - b) Below cathode rod
 - c) On anode rod
 - d) On cathode rod
13. The direction of rotation of a D.C. motor is determined by _____.
 - a) Fleming's right hand rule
 - b) Fleming's left hand rule
 - c) Ampere's right hand grip rule
 - d) Maxwell's cork screw rule
14. A light fan sub circuit can accommodate of maximum load of-
 - a) 100 W
 - b) 500 W
 - c) 800 W
 - d) 1 KW
15. The primary and secondary windings of a transformer are _____.
 - a) Conductively Linked
 - b) Inductively Linked
 - c) Not at all linked
 - d) Electrically Linked
16. The size of a conductor used in power cables depends on the _____.
 - a) Operating voltage
 - b) Type of insulation used
 - c) Power factor
 - d) Current to be carried
17. As per IE rules, the minimum size of copper conductor used in domestic wiring must not be of the size less than _____.
 - a) 1/1.12 mm
 - b) 1/1.01 mm
 - c) 1/0.75 mm
 - d) 1/0.50 mm
18. PVC stands for-
 - a) Poly variable conductors
 - b) Poly vinyl chloride
 - c) Pre verified conductors
 - d) Poly voltage chloride
19. Isolation of heating coil from metallic body in an electric iron is carried out using-
 - a) Varnish
 - b) PVC coating
 - c) Mica film
 - d) Porcelain

20. One of the main advantages of _____ of wiring is that, all the joints are at the switches and lamps/fans which are accessible for inspection in case of faults.
- Tree system
 - Joint Box or Tee system
 - Loop-in system
 - Both (a) & (b)
21. No steel conduit of less than _____ in diameter should be used in wiring system.
- 12.7 mm
 - 11.2 mm
 - 10.5 mm
 - 9.7 mm
22. Primary winding of a transformer will be short circuited if-
- DC supply is applied
 - AC supply is applied
 - Input impedance is increased
 - All of these
23. The name given to the transformer whose induced secondary voltage is same as the applied primary voltage is _____
- Auto Transformer
 - Current Transformer
 - Constant Voltage Transformer
 - Isolation Transformer
24. A transformer is rated in-
- KW
 - KVAr
 - KVA
 - KV
25. Tapping of a transformer is generally given in-
- HV side
 - LV side
 - Any side
 - Together HV & LV side
26. Short circuit tool of a transformer determines-
- Core loss
 - Copper loss
 - Iron loss
 - Hysteresis loss
27. A multiplier for a voltmeter is _____
- A high resistance in series with the meter movement
 - A high resistant in parallel with the meter movement
 - Normally less than 1 ohm resistance in series with the meter movement
 - Low resistance in series as well as parallel with meter movement
28. When two inputs of a cathode Ray Oscilloscope are sinusoids of same amplitude 90° out of phase the pattern generated will be-
- Straight line at 45° with x-axis
 - Of oval shape
 - A Vertical line
 - A circle
29. What is considered as the heart of the Cathode Ray Oscilloscope?
- Saw-tooth Generator
 - Cathode Ray Tube
 - Horizontal Amplifier
 - Vertical Amplifier
30. In the Y secondary of a transformer the line current I_e at phase current I_{ph} are connected as-
- $I_e = I_{ph}$
 - $I_e = \sqrt{3} I_{ph}$
 - $I_{ph} = \sqrt{3} I_e$
 - $I_e = 3 I_{ph}$

31. ELCB is used for-
 - a) Open circuit
 - b) Short circuit
 - c) Personnel shock
 - d) All of these
32. A full wave rectifier with capacitor filter is use for-
 - a) Half wave rectification only
 - b) Full wave rectification only
 - c) Rectification and Ripple filtering
 - d) Any of these
33. In an Analog Multi-meter _____ is/are measured on a non-linear scale.
 - a) Resistance
 - b) Voltage
 - c) Current
 - d) All of these
34. The working of _____ is based on residual current.
 - a) MCB
 - b) ELCB
 - c) MCCB
 - d) Relay
35. If a 10:1 transformer is supplied with 20 V DC, the secondary voltage will be-
 - a) 2 V DC
 - b) 2 V AC
 - c) 200 V DC
 - d) Zero
36. An induction type measuring instrument is used for measurement of _____ quantities.
 - a) AC
 - b) DC
 - c) Both AC & DC
 - d) Any of AC or DC
37. The ripple filtering, the following can be used-
 - a) Inductor
 - b) Capacity
 - c) Resistor
 - d) Transistor
38. The core loss if a transformer may be determined using-
 - a) Short circuit test
 - b) Open circuit test
 - c) Wheatstone bridge
 - d) All of these
39. A Dynamometer instrument is mainly used as a/an _____.
 - a) DC ammeter
 - b) Wattmeter
 - c) DC voltmeter
 - d) Ohmmeter
40. What force in analog instrument quickly brings the moving system to rest in its final position?
 - a) Damping force
 - b) Controlling force
 - c) Deflecting force
 - d) Force at rest
41. The insulation resistance is measured by _____.
 - a) Ohm meter
 - b) Insulation meter
 - c) Megger
 - d) Wien bridge
42. In Delta/Star transformer of 1:1 turn ratio-
 - a) Secondary line voltage is greater than primary line voltage
 - b) Primary line voltage is greater than secondary line voltage
 - c) Primary line voltage is equal to secondary line voltage
 - d) All of these

43. The starting current of a 220V, 10 HP shunt having an armature resistance of 0.2 ohms, without starter is _____.
 a) 11 amps
 b) 110 amps
 c) 1100 amps
 d) 11000 amps
44. The relation between voltage and turns of a transform is-
 a) $\frac{V_1}{V_2} = \frac{N_1}{N_2}$
 b) $\frac{V_1}{V_2} = \frac{N_2}{N_1}$
 c) $\frac{V_1}{V_2} = \frac{N_1 I_1}{N_2 I_2}$
 d) $\frac{V_1}{V_2} = \frac{N_1}{N_2}$
45. The starting resistance of 3 point starter in D.C motor is connected with _____.
 a) Parallel across the armature
 b) Series with the armature
 c) Parallel across the field winding
 d) Series with the field winding
46. The flux in the core of a single phase transformer is _____.
 a) Purely alternating one
 b) Purely rotating one
 c) Partly alternating & partly rotating
 d) Constant
47. Two things which are same for primary and secondary of a transformer are _____.
 a) Resistance and leakage reactance
 b) Ampere turn and volts per turn
 c) Current and induced voltage
 d) Number of turns and power
48. A transformer is an efficient device because it _____.
 a) Use capacitive coupling
 b) Uses inductive coupling
 c) Uses electric coupling
 d) Is a static device
49. When the secondary of a transformer is short circuited, the primary inductance _____.
 a) Is decreased
 b) Remains the same
 c) Is increased
 d) Becomes zero
50. FET has-
 a) High input impedance
 b) Low input impedance
 c) Zero impedance
 d) None of these
