

SET-A
GOVT. I.T.I. BHEDEN, BARGARH
(ELECTRICIAN)

1. The body resistance value of a person with normal age and health is about _____.
 - a. 1 kilo Ω
 - b. 10 kilo Ω
 - c. 5 kilo Ω
 - d. 0.5 kilo Ω
2. Which type of sign can be used for means of warns of danger?
 - a. Prohibition sign
 - b. Mandatory sign
 - c. Warning signs
 - d. information sign
3. A Britannia joint is used in _____.
 - a. Over head line
 - b. Underground cable
 - c. conduit wiring
 - d. power wiring
4. As the SWG number increase the diameter of the conductor _____.
 - a. Increase
 - b. Doubled
 - c. Decreases
 - d. None of these
5. The resistance of carbon on decreasing temperature is
 - a. Increase
 - b. Decrease
 - c. Remains same
 - d. None of these
6. The value of the specific gravity of acid when a lead acid battery is fully charged is _____.
 - a. 1.285
 - b. 2.185
 - c. 2.585
 - d. 2.385
7. Fleming's right hand rule is used to identify the _____.
 - a. Direction of flux
 - b. Direction of current of motor
 - c. Direction of rotation in a generator
 - d. Direction of induced EMF
8. A D.C machine completes 1500 revolution in 1 minute. The speed in revolution per second is
 - a. 50 R.P.S
 - b. 10 R.P.S
 - c. 125 R.P.S
 - d. 25 R.P.S
9. The speed of a D.C series motor at no load is
 - a. Zero
 - b. 3600 R.P.M
 - c. 3000 R.P.M
 - d. infinities
10. The transformer is a _____ device.
 - a. static
 - b. dynamic
 - c. primary
 - d. secondary
11. Instrument transformer is used to measure _____.
 - a. current
 - b. voltage
 - c. frequency
 - d. current and voltage both
12. The permanent magnet moving coil type instrument are best suited for _____.
 - a. A.C measurement
 - b. D.C measurement
 - c. A.C/D.C measurement
 - d. frequency measurement
13. All M.I type instrument measure _____.
 - a. maximum value of A.C
 - b. average value of A.C
 - c. r.m.s. value of A.C
 - d. instantaneous value of A.C
14. Full load current of a 20HP. 3phase 50Hz, 440V induction motor is _____.
 - a. 10A
 - b. 28 A
 - c. 48A
 - d.78A
15. The synchronous motor has _____.
 - a. constant speed
 - b. variable speed
 - c. constant poles
 - d. constant size
16. What is the unit of specific resistance?
 - a. ohm-cm
 - b.ohm/cm
 - c. ohm-m
 - d. ohm
17. Charge of electron is
 - a. +ve
 - b. -ve
 - c. No charge
 - d. Multiple
18. 1 liter is equal to
 - a. 100 mil. Lit
 - b. 1000 mil. Lit
 - c. 100mil.lit
 - d. 10mil.lit

19. Which tool is used for making holes in doors to pass wires?
- Auger bit
 - Plumb bob
 - File
 - Hack saw
20. Nichrome wire is widely used for
- Heater coil
 - Transformer winding
 - Circuit connection
 - Lamp filaments
21. Mica is used for _____.
- Preparing heating element
 - Preparing heating element of room heating
 - soldering
 - small magnet
22. In a VIR wire V, I and R stand for _____.
- Vary important rubber
 - Vulcanized insulated resin
 - Vulcanized Indian rubber
 - Vulcanized impregnated role
23. Plate earthing is generally used in _____.
- house wiring
 - industrial installation
 - temporary wiring
 - cleat wiring
24. The rating of the alternator is given in _____.
- KW
 - KVA
 - KVAR
 - KV
25. Lumen is the unit of _____.
- luminous flux
 - electrical flux
 - magnetic flux
 - None of above a, b, c,
26. The general height of street lights is _____.
- 2m
 - 3 to 4m
 - 20m
 - 10 to 15m
27. The phase sequence indicator is used to indicate the _____.
- frequency of the supply
 - power factor of the supply
 - energy consumed by the load
 - phase sequence of A.C polyphase system
28. The hole in the aluminium disc helps to reduce _____.
- creeping
 - fast moving
 - slow moving
 - the weight of the disc
29. Steel rule is made of which metal _____.
- Stainless steel
 - Mild steel
 - brass
 - Copper
30. Try square is used for checking the job _____.
- 90° angle
 - 60° angle
 - 45°
 - None of these
31. A heater takes 6A at 220V supply. find the value resistance
- 38.33 Ω
 - 30.30Ω
 - 40Ω
 - 52.3Ω
32. An alternator of a car draw six amperes when connected to load of 3ohm, find voltage of the circuit,
- 25V
 - 18V
 - 16V
 - 20V
33. The SI unit of voltage is?
- Volt
 - Ohm
 - Ampere
 - Watt
34. The unit of length, weight and time in C.G.S system _____
- Foot, pound, sec
 - Meter, Kgs, sec
 - cm, gram , sec
 - none of these

35. The value of 1 mega ohm is ____
a. 10^3 ohm c. 10^{-6} ohm
b. 10^6 ohm d. 10^8 ohm
36. Select the best insulator from these _____.
a. Porcelain c. Eureka
b. Tin d. Brass
37. Which type tape used in motor connection _____.
a. PVC c. Plastic
b. Rubber d. crembric varnished
38. The base and cover of electrical accessories is made of _____.
a. Material not affected by fire c. material not affected by chemical and moisture
b. metal d. material not affected by fire
39. Ceiling rose is used for _____.
a. Ceiling fan tube light connection c. safety of the circuit
b. Like switch d. none of these
40. Fuse wire is made of _____.
a. Steel c. aluminum
b. Copper d. lead
41. What is the unit of permittivity?
(a) Wb/metre (b) Farad/metre
(c) Nw/metre (d) Farad/metre²
42. The unit of dielectric-strength _____
(a) kV/mm (b) joules/metre²
(c) coulomb/metre² (d) Nw/Km.
43. One farad is _____
(a) one coulomb/volt (b) one joule/volt
(c) one coulomb/joule (d) one joule/coulomb
44. The value of variable capacitor _____
(a) Changes with time (b) changes with temperature
(c) Changes with voltage (d) changes manually
45. Which type of current is required for charging of battery, electroplating and metal refining?
(a) A.C (b) D.C
(c) None of the above (d) both AC & DC
46. The capacity of cell is measured in _____
(a) watt (b) watt hour
(c) Ampere (d) ampere hour
47. Those materials that's retentively is high, they are used to make _____.
(a) Permanent magnet (b) bar magnet
(c) Electro magnet (d) Para magnet
48. The magnet found in nature is known as _____.
(a) Lode stone (b) artificial magnet
(c) die-magnet (d) permanent magnet
49. Insulation of commutator is of _____.
(a) Mica (b) insulation tape (c) asbestos (d) varnish
50. Brush in D.C generator is made of _____.
(a) Copper (b) carbon (c) brass (d) none of these

SET-B
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(ELECTRICIAN)

1. A 40ohm resistance is connected to 240V supply, find the value of current?
 - a. 8A
 - b. 10A
 - c. 22A
 - d. 25A
2. The electrical unit rate of doing work is_____.
 - a. Watt
 - b. Volt
 - c. Ampere
 - d. Ohm
3. A one kilo watt hour (kWh) is equal to _____.
 - a. 100 watt hour
 - b. 1000 watt hour
 - c. 10 watt hour
 - d. none
4. Select the good conductor from these _____.
 - a. Copper
 - b. Silver
 - c. Aluminum
 - d. PVC
5. The rating of electrical switches as per BIS rule_____.
 - a. 5A & 10A
 - b. 5A & 15A
 - c. 6A & 16A
 - d. 6A & 16A
6. Fuse is safety device in a circuit _____.
 - a. Over load
 - b. Open circuit
 - c. short circuit and over load
 - d. close circuit
7. Fuse work on which effect of electricity_____.
 - (a) heating
 - (b) chemical
 - (c) magnetic
 - (d) all of these
8. Which has maximum dielectric-strength_____?
 - (a) paper
 - (b) glass
 - (c) air
 - (d) Bakelite
9. Two resistances of 9 ohm and 36 ohm are connected in parallel then, R_T _____.
 - (a) 45 ohm
 - (b) 7.2 ohm
 - (c) 3 ohm
 - (d) 9 ohm
10. To determine the sign of e.m.f., the value of fall in potential is:
 - (a)negative
 - (b)positive
 - (c) both negative and positive
 - (d)none of the above
11. Active material of positive plate is _____.
 - (a) Lead peroxide
 - (b) spongy lead
 - (c) Electrolyte
 - (d) all of the above
12. Resistance is measured in
 - a. Amp
 - b. Ohm
 - c. volts
 - d. watt
13. Human body is
 - a. Conductor
 - b. Non conductor
 - c. Metal
 - d. Not metal
14. Good conductor of electricity
 - a. Silver
 - b. Gold
 - c. Iron
 - d. Aluminum
15. In case of electric fire , use
 - a. CO₂
 - b. N₂S
 - c. SO₂
 - d. Cl₂
16. 1 K volt is equal to
 - a. 10 volt
 - b. 100 volt
 - c. 11000volt
 - d. 1000 volt
17. Combination pliers are not used for
 - a. Cutting
 - b. Twisting
 - c. Hammering
 - d. Holding
18. Which tool is used for marking pilot holes for of corner
 - a. Poker
 - b. Hand drill
 - c. Hank saw
 - d. Try square

19. Which tool is used for drawing vertical lines while wiring
- Scale
 - Try square
 - Rod
 - Plumb bob
20. The reciprocal of resistance
- Conductance
 - susceptance
 - Impedance
 - Reactance
21. Switch should be connected on _____.
- neutral wire
 - phase wire
 - earth wire
 - half wire
22. The _____ wiring is suitable for damp place.
- batten wiring
 - cleat wiring
 - casing and capping wiring
 - conduit pipe wiring
23. The speed of a six pole alternator producing 250V, 50c/s is _____.
- 1500rps
 - 500rps
 - 330rps
 - 1000rps
24. Name the apparatus used for starting a fluorescent tube _____.
- choke
 - tube holder
 - starter
 - None of above
25. The wattmeter measures _____.
- apparent power
 - true power
 - reactive power
 - wattless power
26. The most common generation voltage in India are _____.
- 440V, 6.6KV, 11KV
 - 440V, 220V, 110V
 - 11KV, 22KV, 66KV
 - 11KV, 13.2KV, 18KV
27. The _____ insulators are used for the E.H.T. transmission line _____.
- pin
 - shackle
 - suspension
 - stays
28. The capacitor bank is installed to _____ the power factor.
- improve
 - decrease
 - keep the same
 - neutralize.
29. Which type of fire extinguisher is to used on electrical equipment or installation used under fire?
- Foam type
 - Halon type
 - Gas cartridge water filled type
 - Stored pressure , water filled type
30. Which of the following material has a negative temperature coefficient of resistance?
- Brass
 - Copper
 - Carbon
 - Aluminum
31. Soldering is done on the joint to improve the
- Tensile strength
 - Ductility
 - Resistivity
 - Conductivity
32. Which one of the mathematical expression is not correct according to ohm's law?
- $I = V/R$
 - $R = R_1 + R_2$
 - $W = I^2 R$
 - $V = R/I$
33. Trickle charge is required for _____.
- Lead acid batteries
 - Nickel-iron cell
 - primary cell
 - all of the above
34. In electrical machines laminated cores are used with a view to reducing
- Hysteresis
 - Eddy current loss
 - Copper loss
 - All of these
35. The substance belong to diamagnetic material is _____
- Wood
 - Bismuth
 - metal
 - water
36. The SI unit of flux is _____
- Maxwell
 - Gauge
 - Weber
 - Tesla
37. The insulating material used in between commutator segment is _____.
- Varnish
 - Mica
 - empire cloth
 - film paper

38. The direction of rotation of motor is determined by _____.
- a. Fleming right hand rule
 - b. Fleming left hand rule
 - c. Ampere right hand rule
 - d. Maxwell's corkscrew rule
39. The supply is connected to _____ of the transformer.
- a. Secondary winding
 - b. primary winding
 - c. L.T
 - d. H.T
40. The transformer oil is _____.
- a. mineral oil
 - b. vegetable oil
 - c. kerosene oil
 - d. coconut oil
41. The insulation resistance of the installation is measured by _____.
- a. an ammeter
 - b. ohmmeter
 - c. megger
 - d. Kelvin bridge
42. For a 3 phase induction having motor having delta connected rotor, number of slip ring will be equal to
- a. zero
 - b. one
 - c. two
 - d. three
43. The synchronous motor has _____.
- a. constant speed
 - b. variable speed
 - c. constant poles
 - d. constant size
44. The resistance of NVRC is?
- a. high
 - b. low
 - c. medium
 - d. zero ohm
45. Three point starter is used to start the?
- a. DC shunt motor
 - b. series motor
 - c. universal motor
 - d. Induction motor
46. Which type of wiring is used in workshop?
- a. conduit pipe wiring
 - b. batten wiring
 - c. cleat wiring
 - d. LCC wiring
47. The earth resistance is measured in?
- a. ohm meter
 - b. earth tester
 - c. voltmeter
 - d. megger
48. Generally wiring is used for domestic purposes?
- a. batten
 - b. cleat
 - c. lead cover
 - d. bus bar
49. Solar cells are made of?
- a. copper
 - b. aluminium
 - c. silicon
 - d. silver
50. Motor generator, motor convertor are used to convert AC in to DC ?
- a. series generator
 - b. booster
 - c. Rotary converter
 - d. Induction motor

SET-C

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ELECTRICIAN

1. To clean a cable joint before soldering is better to use _____.
 - a. File
 - b. Sand paper
 - c. Knife
 - d. Kerosene
2. The dielectric strength of insulation is called the
 - a. Peak value
 - b. Peak inverse voltage
 - c. Break down voltage
 - d. Berries voltage
3. The reciprocal of resistance is
 - a. Conductance
 - b. Impedance
 - c. Susceptance
 - d. Reactance
4. 100 volt is applied to R_1 and R_2 in series. If V_2 is 25 Volt. How much is V_1 ?
 - a. 75 V
 - b. 25V
 - c. 100 V
 - d. +25 V
5. The cell is connected in parallel when we required _____.
 - a. Higher current
 - b. Higher voltage
 - c. Constant voltage
 - d. Constant current
6. Unit of retentivity is _____.
 - a. Ampere turn
 - b. Ampere turn/meter
 - c. Weber
 - d. Weber/m²
7. Pick out two non magnetic material
 - a. Glass
 - b. Cobalt
 - c. Paper
 - d. steel
8. In DC generator, current to external circuit from armature is given through
 - a. Slip ring
 - b. Commutator
 - c. solid connections
 - d. none of these
9. In a four-pole, Triplex lap wound armature the number of parallel paths are _____.
 - a. 2
 - b. 12
 - c. 4
 - d. 8
10. The sound generated by transformer is generally termed is _____.
 - a. humming
 - b. ringing
 - c. buzzing
 - d. zooming
11. The transformer cores are made of lamination of _____.
 - a. silicon steel
 - b. annealed copper sheets
 - c. aluminium sheets
 - d. tungsten steel
12. Name of the instrument used for measuring the current
 - a. Voltmeter
 - b. P.F meter
 - c. Wattmeter
 - d. Ammeter
13. Symbol of current is
 - a. V
 - b. F
 - c. I
 - d. E
14. 1 meter is equal to
 - a. 1000cm
 - b. 1km
 - c. 100cm
 - d. 10cm
15. Which tool is used to check the right angle of corner
 - a. Scale
 - b. Try square
 - c. Rod
 - d. Protector
16. Which tool is used for making guide holes for drilling in metals
 - a. Center punch
 - b. Picker
 - c. Pencil
 - d. Chalk
17. _____ is best conductor.
 - a. Gold
 - b. Copper
 - c. Silver
 - d. Aluminum
18. 8 SWG is _____ than 16 SWG wire.
 - a. thicker
 - b. thinner
 - c. equal
 - d. None of above

19. The zero watt consumes about _____.
- zero watt
 - 5 to 7W
 - 30 to 40W
 - 0.5 to 0.8 W
20. The towers are of two type _____.
- flexible and rigid
 - long and short
 - thick and thin
 - copper and aluminium
21. The lightning arrester is installed _____.
- for the safety of the transformer
 - for the safety of the line
 - for the safety of the consumer
 - for the safety of the line, connected instruments ,apparatus, machines, and the consumer also
22. The _____ insulators are used on 132kv transmission line.
- shackle type
 - pin type
 - disc or suspension type
 - egg type.
23. The field winding are housed on the _____.
- poles
 - armature
 - rocker
 - shaft
24. For higher voltage _____ winding is used.
- lap
 - wave
 - compensating
 - equalizing
25. File is made of which type of metal _____.
- Cast iron
 - Nickel steel
 - Wrought iron
 - High carbon steel
26. The symbol of current _____.
- W
 - R
 - I
 - V
27. The unit of electrical quantity (charge) ____.
- Newton
 - volt
 - Coulomb
 - farad
28. Fuse wire is made of _____
- Steel
 - copper
 - aluminum
 - lead
29. Fuse is a safety device in a circuit _____
- Overload
 - open circuit
 - short circuit and overload
 - closed circuit
30. Dielectric strength of materials depends upon _____
- thickness
 - moisture
 - temperature
 - above all
31. According to law of Kirchhoff the value of current is on which point?
- Zero
 - sum of all
 - Difference of all
 - none of these
32. Sulphation in battery is due to _____
- Trickle charge
 - too high rate of charge
 - over charged or left discharged for a long time
 - none of these
33. Brush in D.C generator is made of _____.
- Copper
 - carbon
 - brass
 - none of these
34. . Insulation of commutator is of _____.
- Mica
 - insulation tape
 - asbestos
 - varnish
35. The magnet found in nature is known as _____.
- Lode stone
 - artificial magnet
 - die-magnet
 - permanent magnet
36. Unit of voltage is
- Amp
 - Ohm
 - Volt
 - Micro ohm
37. A circuit breaker is a _____ and _____ device.
- switching; protecting
 - switching; measuring
 - interrupting; measuring
 - None on above

38. The guard wire is firmly connected with _____.
- neutral wire
 - phase wire
 - cross arm
 - earth wire
39. In case of earth fault in any circuit the megger will indicate _____.
- zero
 - 50MOHM
 - infinity
 - 1 MOHM
40. Which tool is used for tightening screw?
- Knife
 - Gimlet
 - Pliers
 - screw driver
41. The link between electricity and magnetism as discovered in 1824 by
- Faraday
 - Henry
 - Lenz
 - Oersted
42. A consuming unit has a load of 1000kW & the reactive power 1000kVAR. It has the power factor?
- unity
 - 0.8
 - 0.9
 - 0.7
43. Two lamps of 40W & 60W are connected in parallel. Their resultant power is?
- 100W
 - 20W
 - 50W
 - 240W
44. The height of distribution board from ground level is metre.
- 1m
 - 1.5m
 - 2.0m
 - 2.5m
45. If battery is not used for a long time, then it should be kept at _____
- Discharge less than 1.7 V
 - trickle charge
 - dry place
 - over charge
46. The rating of the transformer is given in _____.
- KW
 - KVA
 - KVAR
 - KV
47. The body resistance value of a person with normal age and health is about _____.
- 1 kilo Ω
 - 5 kilo Ω
 - 10 kilo Ω
 - 0.5 kilo Ω
48. The current drawn by a 220V DC motor of armature resistance 0.2 ohm and back EMF 215v is _____.
- 15A
 - 25A
 - 20A
 - 50A
49. The transformer efficiency is generally in the range of _____.
- 50-60%
 - 60-70%
 - 70-84%
 - 90-98%
50. All M.I type instrument measure _____.
- maximum value of A.C
 - average value of A.C
 - r.m.s. value of A.C
 - instantaneous value of A.C