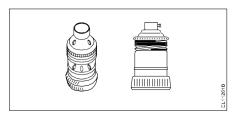
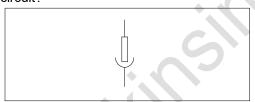
Electrician - Block 1 - Module 4 : Basic Wiring Practice

Questions: Level 1

- 1 How the conduit pipes are specified?
- A Length in metre
- B Wall thickness in mm
- C Inner diameter in mm
- **D** Outer diameter in mm
- 2 What is the fusing factor for rewireable fuse?
- **A** 1.1
- **B** 1.4
- **C** 2.1
- **D** 2.5
- **3** What is the name of electrical accessory?

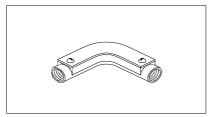


- A Bracket holder
- B Edison screw type holder
- C Angle swivel lamp holder
- D Goliath Edison screw lamp holder
- 4 What is the name of symbol used in wiring circuit?

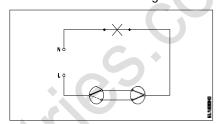


- **A** Link
- **B** Fuse
- C Pull switch
- D Plug and socket

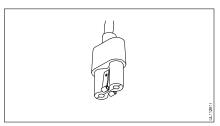
5 What is the name of the conduit accessory?



- A Solid bend
- B Solid elbow
- C Inspection Bend
- **D** Inspection elbow
- 6 What is the name of the diagram?

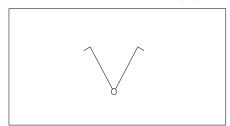


- A Installation plan
- **B** Layout diagram
- C Wiring diagram
- **D** Circuit diagram
- **7** What is the fusing factor for high repturing capacity fuses (HRC)?
- **A** 1.0
- **B** 1.1
- **C** 1.4
- **D** 1.7
- What is the name of the accessory used in electrical appliances?

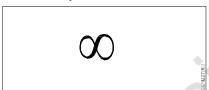


- A 2 Pin plug
- **B** Three pin plug
- C Iron connector with direct entry
- D Flat connector with side entry

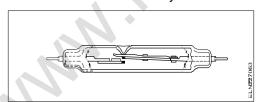
9 What is the name of the accessory symbol?



- A Bell push switch
- **B** Two way switch
- C One way switch two poles
- D Multi position switch single pole
- **10** What is the name of the four insulated conductors group?
- A Pair
- **B** Core
- C Quad
- **D** Layer
- How many two way switches are required in godown wiring circuit to control four lamps?
- **A** 2
- **B** 3
- **C** 4
- **D** 5
- 12 What is the symbol indicates?

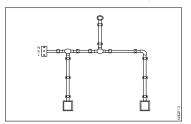


- A Table fan
- B Ceiling fan
- C Bracket fan
- **D** Exhaust fan
- 13 What is the name of the relay?

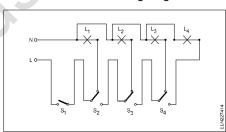


- A Impulse relay
- **B** Dry reed relay
- C Electromagnetic relay
- D Mercury wetted contact relay

14 What is the name of the diagram?

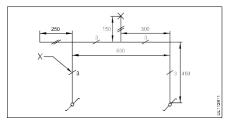


- A Layout plan
- **B** Wiring diagram
- C Installation plan
- D Schematic diagram
- What is the term for the time taken by a fuse to interrupt the circuit in fault?
- A Time factor
- **B** Fusing factor
- C Cut-off factor
- **D** Fusing current
- 16 What is the maximum PVC conduit size to make safe cold bending?
- **A** 12 mm
- **B** 19 mm
- **C** 25 mm
- **D** 50 mm
- 17 What is the name of the lighting circuit?

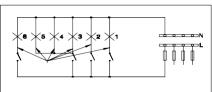


- A Tunnel lighting wiring
- **B** Corridor lighting wiring
- C Godown lighting wiring
- D Staircase lighting wiring
- 18 What is the expansion of MCB?
- A Minute Control Breaker
- **B** Miniature Circuit Breaker
- C Minimum Current Breaker
- D Maximum Current Breaker

19 What does the symbol marked 'X' indicate?



- A Number of wires run on the limb
- B Number of switches to be connected
- C Number of battern (or) pipe to be fixed
- **D** Number of clamps (or) clips to be fixed
- 20 What is the minimum size of aluminum earth continuity conductor used in single phase domestic wiring as per BIS?
- **A** 3.5 Sq.mm
- B 3 Sq.mm
- C 2.5 Sq.mm
- **D** 1.5 Sq.mm
- 21 What is the name of wiring method?



- A Joint box method
- **B** Looping back method
- C Loop in method using 3 plate ceiling rose
- D Loop in method using 2 plate ceiling rose
- 22 What is length of thread on rigid conduits as per BIS?
- A 9mm 20mm
- **B** 11mm 27mm
- C 13mm 25mm
- **D** 15mm 30mm
- 23 Which principle ELCB works?
- A Fall in potential
- **B** Residual current
- C Potential divider
- **D** Current sensing
- 24 Which type of lamp holder is used for the lamps above 300 watts?
- A Edison screw holder
- B Goliath screw holder
- C Angle holder
- **D** Brachet holder

- 25 Which principle miniature circuit breaker works?
- A Thermal magnetic
- **B** Thermal hydraulic
- **C** Thermal pneumatic
- **D** Induction
- What is the formula to find voltage drop of a A.C single phase wiring circuit?
- A Voltage drop = IR volt
- **B** Voltage drop = I^2R volt
- C Voltage drop = I/R volt
- **D** Voltage drop=IR/2 volt
- What is the maximum permissible load for a power sub circuit as per I.E rules?
- A 800 Watt
- **B** 1500 Watt
- C 2000 Watt
- **D** 3000 Watt
- 28 What is the permissible leakage current in domestic wiring installation?
- A 1/5 x Full load current
- B 1/50 x Full load current
- C 1/500 x Full load current
- D 1/5000 x Full load current
- Which formula is used to calculate the diversity factor?
- A Diversity factor = Maximum load

Installed load

B Diversity factor = Installedload

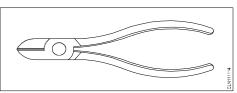
Maximumload

C Diversity factor = Minimum actual load

Installedload

D Diversity factor = Installed load
Minimum actual load

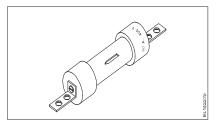
30 What is the name of the tool?



- A Wire stripper
- **B** Crimping tool
- **C** Combination pliers
- **D** Diagonal cutting pliers

Questions: Level 2

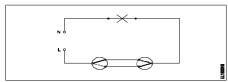
- 1 What is the purpose of underwriter's knot for pendent holder connection?
- A Avoid loose connections
- B Increase mechanical strength
- C Prevent excessive cap cover pressure
- D Reduce the strain from the terminals of accessories
- 2 What is the type of fuse?



- A Knife edge cartridge fuse
- B High rupturing capacity fuse
- C Ferrule contact cartridge fuse
- **D** Diazed screw type cartridge fuse
- Which is provided along into MCB to quench arc during breaking?
- A Oil chamber
- **B** Blow arc oil
- C Arc chute
- **D** Vaccum chamber
- 4 What is the advantage of concealed wiring?
- A Easy to maintain
- **B** Less voltage drop
- C High insulation resistance
- **D** Protection against moisture
- What is the purpose of the flexible cords in domestic wiring?
- A Concealed wiring
- **B** Permanent connection
- C Run cable through holes in ceiling
- **D** Connection transportable appliances
- **6** What is the purpose of tin coating on copper fuse wire?
- A Withstand high temperature
- **B** Increase the fusing factor
- **C** Prevent oxidation of copper wire
- **D** Increase the mechanical strength
- 7 Why tree system of wiring most suitable for multistoryed building?
- A Easy load balancing
- **B** Constant voltage distribution
- C Offers minimum voltage drop
- **D** Easy in fault finding with many fuses

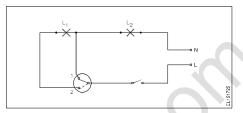
- **8** Which place the Tree system of wiring is most suitable?
- A Godown wiring
- **B** Industrial wiring
- C Domestic wiring
- **D** Multi storied building
- **9** Why separate wiring is recommended for home theatre wiring and power wiring?
- A Avoid electrical fire
- **B** Reduce power loss
- C Avoid electrical interference
- **D** Maintain voltage level constant
- **10** What is the tool used to bend conduits?
- **A** Hickey
- **B** Coupler
- C Pipe vice
- **D** Bench vice
- 11 What is the purpose of ELCB?
- A Detects the fault in circuit
- **B** Monitors the residual current
- C Protects the equipment from over load
- D Protects from short circuit fault
- **12** What is the purpose of the fuse cut out provided at the incoming power supply?
- A To ensure the line is not over loaded
- **B** To maintain the stabilised supply voltage
- C To protect the circuit from the leakage
- **D** To protect the human beings from electric shock
- 13 What is the use of die stock set?
- A Cut external threads on square pipe
- **B** Cut internal threads on cylindrical pipe
- **C** Cut external threads on cylindrical pipe
- **D** Cut internal threads on rectangular pipe
- **14** Which classification of accessory the ceiling rose is classified?
- A Outlet accessories
- **B** Safety accessories
- C Holding accessories
- **D** General accessories

- **15** What is the purpose of the circuit diagram in wiring installation?
- A To show the physical position of accessories
- **B** To estimate the various accessories in the circuit
- C To inform the reader quickly what for the circuit is designed
- **D** To show the schematic connection of the circuit for a specific task
- **16** Why the looping-back (loop in) method is preferred in domestic wiring installation?
- A Easy to identify the faults
- B No separate joints are used
- C More number of tappings can be taken
- **D** More number of sub-circuits can be taken
- 17 What is the name of the diagram?

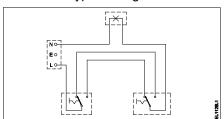


- A Staircase wiring
- **B** Godown wiring
- C Hostel wiring
- **D** Tunnel wiring
- 18 What is the function of circuit breaker?
- A Making contact at normal condition
- **B** Making contact at abnormal condition
- **C** Breaking automatically at abnormal condition
- D Physical breaking contact at abnormal condition
- 19 What is the function of bimetallic strip in MCB?
- A Over load protection
- **B** Short circuit protection
- C Over voltage protection
- **D** Earth leakage protection
- 20 What protection offered by residual current circuit breaker?
- A Protection from shock
- **B** Protection from over load
- C Protection from short circuit
- D Protection from leakage current

- 21 Where the phase conductor is looped in looping system of wiring?
- A Switch box
- **B** Junction box
- C Distribution box
- **D** Socket connection
- What is the application of the wiring circuit?

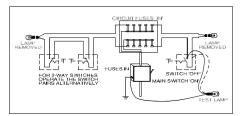


- A Two lamps dim operation only
- **B** Two lamps controlled by one switch
- C Two lamps controlled by two switches
- **D** One lamp bright and two lamp dim operation
- Which types of accessories are used to operate a portable appliance?
- A Safety accessories
- **B** Holding accessories
- C Outlet accessories
- **D** Controlling accessories
- Which type of accessories of fuse is comes under?
- A Controlling accessories
- **B** Holding accessories
- C Safety accessories
- **D** Outlet accessories
- 25 What is the type of diagram?

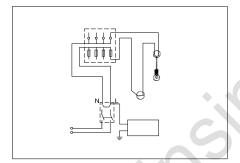


- A Wiring diagram
- **B** Circuit diagram
- C Installation plan
- **D** Layout diagram

26 What is the type of test in domestic wiring installation?

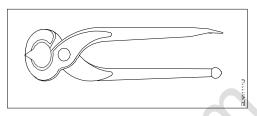


- A Polarity test
- B Continuity (or) open circuit test
- C Insulation resistance test between conductors
- D Insulation resistance test between conductors and earth
- Which instrument is used to test new domestic wiring installation?
- **A** Multimeter
- **B** Megger
- **C** Shunt type ohmmeter
- **D** Series type ohmmeter
- 28 What is the type of test in the wiring installation?



- A Polarity test
- B Open circuit test
- C Insulation resistance test between conductors
- **D** Insulation resistance test between conductors and earth
- 29 Which test is to be carried out by using megger?
- A Polarity test
- **B** Insulation resistance test
- **C** Earth electrode resistance test
- **D** Earth conductor continuity test
- **30** Which plier is used for making wire hooks and loops?
- A Flat nose plier
- B Long nose plier
- **C** Round nose plier
- D Diagonal cutting plier

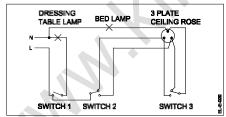
- 31 What is the use of pincer?
- A Twisting the flexible wires
- **B** Cutting small diameter of wires
- **C** Extracting the pin nails from the wood
- **D** Holding small objects, where finger cannot reach
- 32 What is the use of this tool?



- A Holding the hot substances
- **B** Cutting and twisting the wires
- **C** Extracting nails from the wood
- **D** Loosening and tightening the bolts and nuts

Questions: Level 3

- 1 What is the reason of lamp glowing dim and motor running slow in a domestic wiring circuit?
- A Open circuit in the neutral line
- B Short circuit between conductors
- C High value series resistance fault
- **D** Open circuit in the earth conductor
- What is the effect of low current rated cable used to connect higher current load?
- A Voltage drop increases
- **B** Load current increases
- C Voltage drop decreases
- D Cable damage due to heat
- Why the copper cables are mostly preferred than aluminium cables in bath room?
- A Copper is cheaper
- **B** One type of wiring material only to be used in all rooms
- **C** Aluminium will be oxidised quickly
- D Less voltage drop in copper
- 4 Why the earth wire is laid running along with the conduit run domestic wiring installation?
- A Make the conduit mechanically sharp
- **B** Save the earth wire against mechanical damage
- **C** Provide continuous electrical conductivity to earth connection
- **D** Connect the earth wire to the installation of earth terminal
- Which test to be carried out next, after disconnecting the supply in this circuit?



- A Continuity test between switch 1 and 2.
- **B** Continuity test between switch No.2 and ceiling rose
- C Continuity test of the neutral conductor of the lamp
- **D** Continuity test at the switch No.2 and 3

Module 4 : Basic Wiring Practice - Key paper

Questions: Level 1 Questions: Level 2 Question: Level 3

SL.No	Key
1	D
2	В
2 3 4	В
	D
5 6	C D B C C B
	D
7	В
8	С
9	D
10	С
11	В
12	В
13	В
14	С
15	С
16	С
17	С
18	В
19	Α
20	С
21	B B C C C C B A C B
22	В
23	В
24	В
25	B B A A D
26	Α
27	D
28	D
29	С
30	D
	•

SL.No	Key
1	D
2	
3	С
4	D
5	D
5 6 7 8	С
7	D
	D
9	С
10	A
11	В
12	А
13	B C D D C C A B A C C A
14	Α
15	D
16	В
17	D B A C A A D D C C A A B D B C
18	С
19	Α
20	Α
21 22 23 24 25 26	D
22	D
23	С
24	С
25	Α
	Α
27	В
28	D
29	В
30	С
31	С
32	С

SL.No	Key
1	С
2	D
3	С
4	С
5	С