

IE rules on electrical system and Wiring accessories

1). Where the Iron Clad Double Pole (ICDP) main switch is used?

- (A) Large industrial installations
- (B) Large commercial installations
- (C) Single phase domestic installations
- (D) Three phase power circuit installations

Correct Answer : C

2). Which type of circuit breaker is used above 200 A current rating?

- (A) Miniature Circuit Breaker (MCB)
- (B) Earth Leakage Circuit Breaker (ELCB)
- (C) Moulded Case Circuit Breaker (MCCB)
- (D) Residual Current Circuit Breaker (RCCB)

Correct Answer : C

3). Which type of accessories, does the fuse comes under?

- (A) Controlling accessories
- (B) Holding accessories
- (C) Safety accessories
- (D) Outlet accessories

Correct Answer : C

4). What is an application of 'L' series type MCB's?

- (A) Geysers
- (B) Locomotives
- (C) Halogen lamps
- (D) Air conditioners

Correct Answer : A

5). How many two way switches along with intermediate switch are used to control one lamp from three different places?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

Correct Answer : B

6). Which electrical accessory belongs to general classification of accessories?

- (A) Fuse
- (B) Ceiling rose
- (C) Intermediate switch
- (D) Pendent lamp holder

Correct Answer : B

7). 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

Correct Answer : C

8). Where the flexible cords are used in the domestic installation?

- (A) In concealed wiring

(B) In switch box wiring

(C) In DB box wiring

(D) In portable appliances

Correct Answer : D

9). What is the expansion of MCCB?

- (A) Moulded Case Circuit Breaker
- (B) Miniature Case Circuit Breaker
- (C) Mini Case Circuit Breaker
- (D) Micro Case Circuit Breaker

Correct Answer : A

10). What is the maximum PVC conduit size to make safe cold bending?

- (A) 12 mm
- (B) 19 mm
- (C) 25 mm
- (D) 50 mm

Correct Answer : C

11). Which type of relay can be operated on both A.C and D.C supply?

- (A) Ferred relay
- (B) Thermal relay
- (C) Impulse relay
- (D) Dry reed relay

Correct Answer : C

12). What is the name of the BIS symbol as shown in the figure?



- (A) Lamp
- (B) Two way switch
- (C) Intermediate switch
- (D) Multi - position switch

Correct Answer : C

13). Which type of conduit is used for gas tight explosive installation?

- (A) Flexible conduits
- (B) Rigid steel conduits
- (C) Rigid non-metallic conduits
- (D) Flexible non-metallic conduits

Correct Answer : B

14). What is the maximum load on each power sub-circuit as per BIS?

- (A) 2000 W
- (B) 3000 W
- (C) 5000 W
- (D) 6000 W

Correct Answer : B

15). What is the name of the conduit accessory as shown in the figure?



- (A) Solid bend
- (B) Solid elbow
- (C) Inspection Bend
- (D) Inspection junction box

Correct Answer : C

Answer : D Suggestion 16). How many two way switches minimum required in godown wiring circuit to control four lamps?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

Correct Answer : B

17). What is the fusing factor for high rupturing capacity fuses (HRC)?

- (A) 1.0
- (B) 1.1
- (C) 1.4
- (D) 1.7

Correct Answer : B

18). What is the name of the accessory used in electrical appliances as shown in the figure?



- (A) 2 Pin socket
- (B) Three pin socket
- (C) Iron connector with direct entry
- (D) Flat connector with side entry

Correct Answer : C

19). What is the function of circuit breaker?

- (A) Connects the circuit automatically at abnormal condition
- (B) Makes the circuit automatically at abnormal condition
- (C) Breaks the circuit automatically at abnormal condition
- (D) Breaks the circuit automatically at normal condition

Correct Answer : C

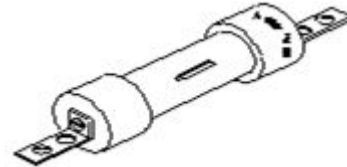
20). Which type of insulation tape is used for domestic wiring?

- (A) Rubber tape
- (B) Friction tape
- (C) PVC tape
- (D) Varnished cambric tape

Correct Answer : C

21). What is the type of the fuse as shown in the figure?

- (A) Rewirable kit-kat fuses



(B)

- (B) High rupturing capacity fuse
- (C) Ferrule contact cartridge fuse
- (D) Diazed screw type cartridge fuse

Correct Answer : B

22). What is the effect on the low current rated cable used to connect the higher load?

- (A) Power loss decreases
- (B) Voltage drop remains same
- (C) Voltage drop decreases
- (D) Cable damage due to heat

Correct Answer : D

23). Why separate wiring is recommended for home theatre wiring and power wiring?

- (A) To avoid the mechanical vibration
- (B) To reduce the power loss
- (C) To avoid the electrical interference
- (D) To maintain the voltage level constant

Correct Answer : C

24). Which type of lamp holder is used for the incandescent lamps of above 300 watts?

- (A) Edison screw type holder
- (B) Goliath Edison screw type holder
- (C) Porcelain angle holder
- (D) Porcelain batten holder

Correct Answer : B

25). 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

Correct Answer : D

26). Which types of accessories are used to tap the supply for a portable appliance?

- (A) Safety accessories
- (B) Holding accessories
- (C) Outlet accessories
- (D) Controlling accessories

Correct Answer : C

27). What is the disadvantage of the tree system of wiring of Multistoried building?

- (A) Easy load balancing
- (B) Constant voltage distribution
- (C) Offers minimum voltage drop
- (D) Difficult in fault finding with many fuses

Correct Answer : D

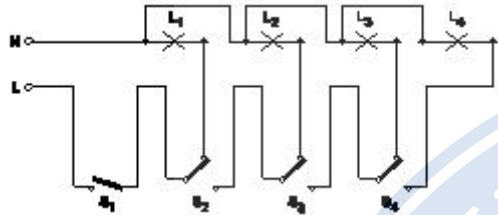
28). What is the name of the symbol indicates as shown in the figure?



- (A) Table fan
- (B) Ceiling fan
- (C) Bracket fan
- (D) Exhaust fan

Correct Answer :

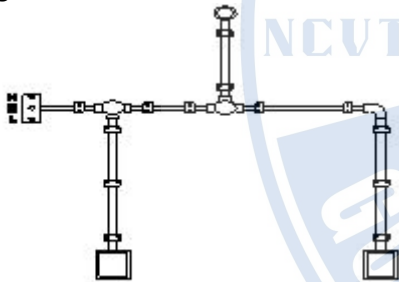
29). What is the name of the circuit as shown in the figure?



- (A) Tunnel lighting wiring
- (B) Corridor lighting wiring
- (C) Godown lighting wiring
- (D) Staircase lighting wiring

Correct Answer : C

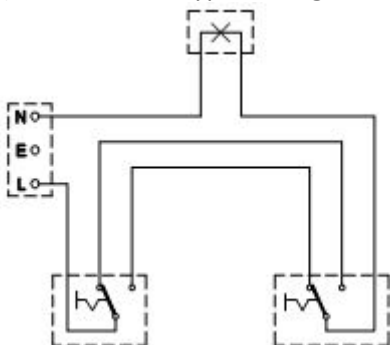
30). What is the name of the diagram as shown in the figure?



- (A) Layout plan
- (B) Wiring diagram
- (C) Installation plan
- (D) Schematic diagram

Correct Answer : C

31). What is the type of diagram as shown in the figure?



- (A) Wiring diagram
- (B) Circuit diagram
- (C) Installation plan

(D) Layout diagram

Correct Answer : A

32). Which is employed in circuit breaker for the thermal over load protection?

- (A) Bimetallic strip
- (B) No volt coil
- (C) Mechanical vibration
- (D) Magnetic repulsion

Correct Answer : A

33). Which electrical equipment can be connected with 'L' series MCB?

- (A) General lighting
- (B) Motors
- (C) Air conditioner
- (D) Halogen lamp

Correct Answer : A

34). What is the purpose of tin coating on the copper fuse wire?

- (A) Withstand high temperature
- (B) Increase the fusing factor
- (C) Prevent the oxidation of copper wire
- (D) Increase the mechanical strength

Correct Answer : C

35). 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 current
- (D) To protect the human beings from electric shock

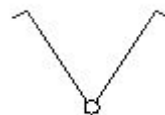
Correct Answer : A

36). Which type of protection the ELCB can provide?

- (A) Short circuit
- (B) Ground fault
- (C) Open circuit
- (D) Over load

Correct Answer : B

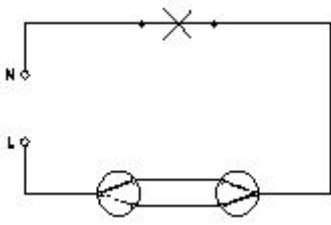
37). What is the name of the symbol as shown in the figure?



- (A) Bell push switch
- (B) Two way switch
- (C) One way switch two poles
- (D) Multi position switch single pole

Correct Answer : D

38). What is the name of the wiring diagram?



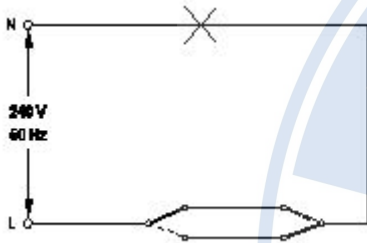
- (A) Staircase wiring
 - (B) Godown wiring
 - (C) Hostel wiring
 - (D) Tunnel wiring
- Correct Answer : A

39). What is the megger reading in a dead short wiring installation?

- (A) 0 MW
- (B) 1 MW
- (C) 500 MW
- (D) Infinity

Correct Answer : A

40). Which type of switch is used in the circuit as shown in the figure?



- (A) One way switch
- (B) Two way switch
- (C) Intermediate switch
- (D) Multiposition switch

Correct Answer : B

41). Which is the application of DC series MCB?

- (A) AC motor
- (B) Synchronous motor
- (C) Locomotives
- (D) Air conditioners

Correct Answer : C

42). What is the expansion of AWG?

- (A) American Wire Gauge
- (B) American Wire Grade
- (C) American Wire Group
- (D) American Wire Guard

Correct Answer : A

43). What is the advantage of the concealed wiring?

- (A) Easy to maintain
- (B) Less voltage drop
- (C) High insulation resistance
- (D) Protection against moisture

Correct Answer : D

44). Which electrical device is the coarse excess current protection?

- (A) Cartridge fuses
- (B) Rewirable fuses
- (C) Miniature Circuit Breaker (MCB)
- (D) High Rupturing Capacity (HR) Fuses

Correct Answer : B

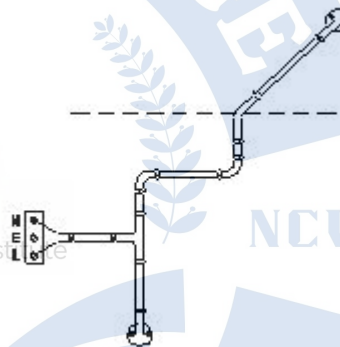
45). What is the name of the symbol as shown in the figure?



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

Correct Answer : D

46). What is the type of wiring as shown in the figure?



- (A) CTS wiring
- (B) Cleat wiring
- (C) PVC conduit wiring
- (D) PVC casing and capping wiring

Correct Answer : B

47). What protection offered by residual current circuit breaker?

- (A) Protection from the electric shock
- (B) Protection from the over load
- (C) Protection from the short circuit
- (D) Protection from the over voltage

Correct Answer : A

48). Which classification of accessory the ceiling rose is classified?

- (A) Outlet accessories
- (B) Safety accessories
- (C) Holding accessories
- (D) General accessories

Correct Answer : D

49). What is the tool used to bend the metal conduits?

- (A) Hickey

- (B) Coupler
- (C) Combination pliers
- (D) Bench vice

Correct Answer : A

50). What is the purpose of the ELCB?

- (A) Protects the equipment from over current
- (B) Protects the equipment from leakage current
- (C) Protects the equipment from short circuit
- (D) Protects the equipment from over voltage

Correct Answer : B

