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3. PROCTIVE DEVICES AND WIRING CIRCUITS

- 1. What does HRC stand for in HRC fuse?
- a) High Resistance Connection
- b) High Retaining Current
- c) High Rupturing Capacity
- d) High Rated Control

Answer: c) High Rupturing Capacity

- 2. Which of the following is a characteristic of an HRC fuse?
- a) Can be reset after tripping
- b) Protects against overload and short circuits
- c) Contains a replaceable fuse wire
- d) Provides protection against electric shock

Answer: b) Protects against overload and short circuits

- 3. A kit kat fuse is primarily used in:
- a) Residential buildings
- b) Industrial facilities
- c) Commercial establishments
- d) Outdoor lighting systems

Answer: a) Residential buildings

- ture
- a) MCB (Miniature Circuit Breaker
- b) MCCB (Molded Case Circuit Breaker)
- c) ELCB (Earth Leakage Circuit Breaker)

Answer: a) MCB (Miniature Circuit Breaker)

- 5. What is the primary function of an ELCB (Earth Leakage Circuit Breaker)?
- a) To regulate voltage
- b) To protect against overload and short circuits
- c) To provide electrical isolation and reduce the risk of electric shock
- d) To detect leakage of current to the earth and trip the circuit

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Answer: d) To detect leakage of current to the earth and trip the circuit 6. Which protective device is commonly used in motor control circuits to protect against overload? a) HRC fuse b) Kit kat fuse c) MCB	Justanes ta torte
d) Relay Answer: d) Relay 7. Which of the following protective devices is commonly used for high-power applications? a) HRC fuse b) Kit kat fuse c) MCB d) MCCB (Molded Case Circuit Breaker) Answer: d) MCCB (Molded Case Circuit Breaker)	Jr. 21 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
d) MCCB (Molded Case Circuit Breaker) Answer: d) MCCB (Molded Case Circuit Breaker) 8. Which tool is used to strip insulation from electrical wires? a) Screwdriver b) Pliers c) Wire stripper d) Crimping tool	ynananeeta tortei
Answer: c) Wire stripper 9. Which tool is used to twist together the ends of electrical wires for secure connections? a) Screwdriver b) Pliers c) Wire stripper	yranapeata tortes
d) Wire nut Answer: b) Pliers 10. Which tool is used to tighten or loosen screws on electrical terminals? a) Screwdriver b) Pliers c) Wire stripper	Justalesta tortes
d) Crimping tool Answer: a) Screwdriver	

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a) Screwdriver

b) Pliers

c) Wire stripper

d) Crimping tool

Answer: d) Crimping tool

a) Screwdriver

Answer: c) Multimeter

13. Which type of wiring system is commonly used for surface-mounted electrical installations?

a) Conduit wiring

b) PVC casing capping
c) Concealed conduit wiring
d) Busbar trunking system

Answer: b) PVC casing capping
. What is the purpose of a surface conduit wiring system

) To provide mechanical --

b) To provide electrical insulation to

d) To regulate voltage fluctuations in electrical circuits

Answer: c) To facilitate easy installation and maintenance of electrical wiring

a) Conduit wiring

b) PVC casing capping

c) Surface conduit wiring

d) Busbar trunking system

Answer: a) Conduit wiring

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16. What is the purpose of a concealed conduit wiring system?

a) To provide mechanical protection to electrical wires

b) To provide electrical insulation to electrical wires

c) To facilitate easy installation and maintenance of electrical wir

d) To regulate voltage fluctuations in electrical circuits

Answer: a) To provide mechanical protection to electrical wires

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a) Conduit wiring

b) PVC casing capping

c) Surface conduit wiring

d) Busbar trunking system

Answer: d) Busbar trunking system

18. What is the primary advantage of a busbar trunking system?

a) Easy installation and modification of electrical circuits

b) Cost-effective wiring solution

c) Enhanced electrical insulation properties

d) Greater protection against electrical faults

Answer: a) Easy installation and modification of electrical circu

a) Conduit wiring

b) PVC casing capping

c) Surface conduit wiring

d) Flexible cord wiring

Answer: d) Flexible cord wiring

20. What is the purpose of flexible cord wiring?

a) To provide mechanical protection to electrical wires

b) To provide electrical insulation to electrical wires

c) To facilitate easy installation and maintenance of electrical wiring

d) To allow for flexible connections and temporary installations

Answer: d) To allow for flexible connections and temporary installation

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21. Which type of wire is commonly used for electrical wiring in buildings and homes?

a) Solid copper wire

b) Stranded copper wire

c) Aluminum wire

d) Nichrome wire

Answer: b) Stranded copper wire

22. Which type of wire is known for its high conductivity and low resistance?

a) Solid copper wire

Answer: a) Solid copper wire

23. Which type of wire is commonly used for electrical transmission and distribution?

a) Solid copper wire

b) Stranded copper wire

c) Aluminum wire

d) Nichrome wire

Answer: c) Aluminum wire

. Which type of wire is commonly used for heating.

) Solid copper wire

a) Solid copper wire

b) Stranded copper wire

c) Aluminum wire

d) Nichrome wire

Answer: d) Nichrome wire

25. Which type of wire is known for its high resistance and is used in applications requiring controlled heating?

a) Solid copper wire

b) Stranded copper wire

c) Aluminum wire

d) Nichrome wire

Answer: d) Nichrome wire

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26. Which type of wire is commonly used for underground electrical installations?

- a) Solid copper wire
- b) Stranded copper wire
- c) Aluminum wire
- d) Direct burial wire

Answer: d) Direct burial wire

- a) Solid copper wire

Answer: d) High-temperature wire

28. Which type of wire is commonly used for low-voltage signaling and control circuits?

a) Solid copper wire
b) Stranded copper wire
c) Shielded wire
d) Twisted pair wire

Answer: c) Shielded wire
. Which type of wire is commonly used for Etherner--) Solid copper wire

- b) Stranded copper wire
- c) Shielded wire
- d) Twisted pair wire

Answer: d) Twisted pair wire

- a) Solid copper wire
- b) Stranded copper wire
- c) Shielded wire
- d) Twisted pair wire

Answer: b) Stranded copper wire

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31. Why are protective devices necessary in electrical circuits?

a) To regulate voltage levels

b) To control power consumption

c) To protect against electrical faults and hazards

d) To increase the efficiency of electrical systems

Answer: c) To protect against electrical faults and hazards

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a) To regulate voltage levels

b) To control power consumption

c) To provide electrical insulation

d) To protect against overcurrent and short circuits

Answer: d) To protect against overcurrent and short circuits

a) To regulate voltage levels

b) To control power consumption

c) To provide electrical insulation

d) To protect against overcurrent and short circuits

a) Fuse

b) Circuit breaker

c) Residual Current Device (RCI

d) Surge protector

Answer: c) Residual Current Device (RCD)

35. What is the function of an isolator switch in an electrical circuit?

a) To regulate voltage levels

b) To control power consumption

c) To provide electrical insulation

d) To isolate a circuit from the power supply for maintenance or repairs

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36. Which protective device is commonly used to protect electrical appliances from voltage fluctuations?	
a) Fuse	, allabota torte
b) Circuit breaker	esta.
c) Voltage stabilizer	
d) Surge protector	
Answer: c) Voltage stabilizer	
37. Which protective device is used to protect electrical circuits from overvoltage caused by lightning or power surges?	
a) Fuse	forte
b) Circuit breaker	e di la companya di l
c) Voltage stabilizer	
d) Surge protector	
Answer: d) Surge protector	
38. What is the purpose of a ground fault circuit interrupter (GFCI)?	*80
a) To regulate voltage levels	told
b) To control power consumption	OS STORY
c) To provide electrical insulation	
d) To protect against ground faults and electric shock	
Answer: d) To protect against ground faults and electric shock	
39. Which protective device is commonly used in motor control circuits to protect against overload?	
a) Fuse	fort
b) Circuit breaker	Justabeeta torte
c) Overload relay	
d) Surge protector	
Answer: c) Overload relay	
40. Which protective device is commonly used to protect sensitive electronic equipment from voltage spikes and surges?	*©
a) Fuse	401
b) Circuit breaker	Sejia
40. Which protective device is commonly used to protect sensitive electronic equipment from voltage spikes and surges? a) Fuse b) Circuit breaker c) Voltage stabilizer d) Surge protector	
40. Which protective device is commonly used to protect sensitive electronic equipment from voltage spikes and surges? a) Fuse b) Circuit breaker c) Voltage stabilizer d) Surge protector	Jnanapeta for ted
Answer: d) Surge protector	

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41. What is the function of a fuse wire in a fuse?

a) To provide mechanical support

b) To provide electrical insulation

c) To carry the electrical current

d) To melt and break the circuit in case of an overcurrent

Answer: d) To melt and break the circuit in case of an overcurrent

a) Copper

b) Aluminum

c) Silver

d) Tin

Answer: c) Silver

a)The diameter or thickness of wire

b) The length of the wire

c) The material composition of the wire

d) The shape or configuration of the wire

Answer: a) The diameter or thickness of the wire

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a) Cartridge-type fuses are cheape

d) Cartridge-type fuses can be reset after tripping

Answer: c) Cartridge-type fuses provide better protection

a) Lead fuse wire

b) Aluminum fuse wire

c) Silver fuse wire

d) Copper fuse wire

Answer: c) Silver fuse wire

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a) Fuses are inexpensive

b) Fuses provide better protection than circuit breakers

c) Fuses are easier to replace than circuit breakers

d) Fuses are more reliable than circuit breakers

Answer: a) Fuses are inexpensive

47. How does a fuse protect an electrical circuit?

a) By opening the circuit when excessive current flows through it

Answer: a) By opening the circuit when excessive current flows through it

48. Which of the following is a disadvantage of using a fuse in an electrical circuit?

a) Fuses are difficult to replace

b) Fuses have a limited lifespan

c) Fuses are bulky and take up more space
d) Fuses are prone to false tripping

Answer: b) Fuses have a limited lifespan

. What is the purpose of a fuse carrier in a fuse holder?

) To provide mechanical sup-

b) To provide electrical insulation

c) To hold the fuse wire securely in place

d) To regulate the voltage in the circuit

Answer: c) To hold the fuse wire securely in place

50. Which of the following is a characteristic of a fast-blow fuse?

a) It can withstand high levels of current for a short duration

b) It can withstand high levels of current for a long duration

c) It blows quickly in response to an overcurrent

d) It provides a delayed response to an overcurrent

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