

RME Exam 3

<a>1. Potential transformers, and other switchboard devices with potential coils shall be supplied by a circuit that is protected by standard overcurrent devices rated ____ amperes or less.

- (a.) 15
- (b.) 20
- (c.) 25
- (d.) 30

2 Which of the following is a false statement?

- (a.) Where a building is supplied by more than one service, a permanent plaque or directory shall be installed at each service disconnect denoting the location of all other services.
- (b.) Service conductors supplying a building are permitted to pass through the interior or another building.
- (c.) Conductors other than service conductors shall not be installed in the same service raceway.
- (d.) Conductors run above the top level of a window shall be permitted to be less than 3 feet away from a window that is designed to be opened.

<d>3. Type ____ cable consists of three or more flat copper conductors placed edge-to-edge and separated and enclosed within an insulating assembly.

- (a.) NMC
- (b.) AC
- (c.) MI
- (d.) FCC

<a>4. A cord connector that is supported by permanently installed cord pendant shall be considered _____.

- (a.) receptacle outlet
- (b.) permanent cord
- (c.) lighting outlet
- (d.) outlet device

<c>5. Equipment intended to break current at fault levels shall have an interrupting rating sufficient for the system voltage and the current which is ____ at the line terminals of the equipment.

- (a.) at maximum
- (b.) operating
- (c.) available
- (d.) required

<d>6. Electrodes of nonferrous metal shall be at least _____ in thickness.

- (a.) 0.06mm
- (b.) .186"
- (c.) 1.52"
- (d.) 0.06"

<a>7. Examples of resistance heaters are _____.

- I. heating blankets
 - II. heating tape
 - III. heating barrel
- (a.) I and II only
 - (b.) II and III only
 - (c.) III only
 - (d.) II only

<d>8 Metal surface raceways having splices and taps shall be permitted as long as the splices and taps and conductors do not fill the raceway more than _____ percent of the area of the raceway at that point.

- (a.) 40
- (b.) 50
- (c.) 70
- (d.) 75

<c>9. Receptacles in damp or wet locations flush mounted shall _____.

- I. be protected from the weather where located under canopies or marquees not subject to water run off
 - II. have an attachment plug cap inserted
 - III. be made weatherproof by means of a weatherproof faceplate assembly
 - IV. be located so that water accumulation is not likely to touch the outlet cover or plate
- (a.) I only
 - (b.) II only
 - (c.) III only
 - (d.) I, II, III, IV

<c>10. Circuits that only supply neon tubing installations shall not be rated in excess of _____ amperes.

- (a.) 15
- (b.) 20
- (c.) 30
- (d.) 50

11. A portable motor which has an attachment plug and receptacle may use this type of attachment as the controller provided the motor does not exceed _____ hp.

- (a.) 1/8
- (b.) 1/3
- (c.) 1
- (d.) 3

<c>12. Metal canopies supporting lampholders, shades, etc., exceeding _____ pounds shall not be less than 0.020 inch in thickness.

- (a.) 4
- (b.) 6
- (c.) 8
- (d.) 10

<c>13. Live parts exposed on the front of a switchboard are present, the working space in front of the switchboard shall not be less than _____ inches.

- (a.) 24
- (b.) 30
- (c.) 36
- (d.) 42

14. Armored cable installed in thermal insulation shall have conductors rated at _____. The ampacity of cable installed in these applications shall be that of 60 degree C conductors.

- (a.) 60 degrees C
- (b.) 194 degrees F
- (c.) 75 degrees C
- (d.) 90 degrees F

<c>15. For hallways of _____ feet or more in length at least one receptacle outlet shall be required.

- (a.) 6
- (b.) 8
- (c.) 10
- (d.) 12

<a>16. In panelboards, where the voltage on busbars is 150 volts and the bars are opposite polarity, held free in air, the minimum spacing between the parts is _____.

- (a.) 3/4"
- (b.) 1"
- (c.) 1 1/2"
- (d.) 2"

17. Alkali-type battery cells in jars of conductive material shall be installed in trays of nonconductive material with not more than _____ 24 volt cells in the series circuit in any one tray.

- (a.) ten
- (b.) twenty
- (c.) thirty
- (d.) forty

<c>18. Exposed live parts within porcelain fixtures shall be suitably recessed and so located as to make it improbable that wires will come in contact with them. There shall be a spacing of at least _____ between live parts and the mounting plane of the fixtures.

- (a.) 1/4"
- (b.) 1/8"
- (c.) 1/2"
- (d.) 3/4"

<c>19. The grounding conductor for secondary circuits of instrument transformers and for instrument cases shall not be smaller than #12 _____.

- I. metal
- II. Aluminum
- III. copper
- (a.) I only
- (b.) II only
- (c.) III only
- (d.) I, II, III

<a>20. A current-limiting overcurrent protective device is a device which will _____ the current flowing in the faulted circuit.

- (a.) reduce
- (b.) increase
- (c.) maintain
- (d.) none of these

<a>21. An office is to be wired with the number of receptacles unknown, the demand for the receptacles is _____ va per square foot.

- (a.) 1
- (b.) 3
- (c.) 3.5
- (d.) 180

<c>22. In a recreational vehicle park with electrical supply, at least _____% of the sites shall be equipped with 30 ampere, 125 volt receptacles.

- (a.) 5
- (b.) 20
- (c.) 70
- (d.) 100

23. No parts of pendants shall be located within a zone measured _____ feet horizontally and 8 feet vertically from the tip of the bathrub rim.

- (a.) 2
- (b.) 3
- (c.) 4
- (d.) 6

24. The lead wires of heating cables are color coded for _____ identification.

- (a.) lead
- (b.) voltage
- (c.) wire
- (d.) cable

<c>25. Plug fuses must have what specific shape?

- (a.) octagonal
- (b.) square
- (c.) hexagonal
- (d.) round

26. Fixtures in clothes closets shall be _____,

I. a surface-mounted or recessed incandescent fixtures with a completely enclosed lamp

II. a surface-mounted or recessed fluorescent fixture

III. pendant fixture

- (a.) I only
- (b.) I and II only
- (c.) I and III
- (d.) I, II & III

<c>27. All heating elements that are replaceable _____ and are a part of an electric heater shall be legibly marked with the rating in volts and watts, or in volts and amperes.

- (a.) in the shop
- (b.) by the manufacturer
- (c.) in the field
- (d.) none of these

<d>28. Plug fuses and fuse holders can be used in circuits supplied by a system having a grounded neutral and having no conductor at over _____ volts to ground.

- (a.) 115
- (b.) 120
- (c.) 125
- (d.) 150

29. EMT shall not be used _____.

- (a.) for exposed work
- (b.) where protected from corrosion solely by enamel
- (c.) for concealed work
- (d.) none of these

<d>30. Where a motor is connected to a branch circuit by means of an attachment plug and receptacle and individual overload protection is omitted, the rating of the attachment plug and receptacle shall not exceed _____ or 250 volts.

- (a.) 15 amperes at 110 volts
- (b.) 20 amperes at 115 volts
- (c.) 25 amperes at 120 volts
- (d.) 15 amperes at 125 volts

<d>31. All type FCC cable connections shall use connectors identified for their use, installed such that _____ against dampness and liquid spillage are provided.

- | | | |
|--------------------------|------------------|--------------|
| I. electrical continuity | II. Insulation | III. Sealing |
| (a.) I only | (c.) III only | |
| (b.) II only | (d.) I, II & III | |

<d>32. The disconnecting means of a hermetic-type refrigerator compressor shall have an ampacity of at least _____ of the nameplate full load current.

- | | |
|-----------|-----------|
| (a.) 125% | (c.) 100% |
| (b.) 80% | (d.) 115% |

<c>33. Fixtures shall be so constructed that adjacent combustible material will not be subject to temperature in excess of _____ degrees C.

- | | |
|---------|----------|
| (a.) 60 | (c.) 90 |
| (b.) 75 | (d.) 110 |

<d>34. A factory installed duplex receptacle in a baseboard heater, where the heater is to be permanently installed in a commercial building is _____.

- (a.) prohibited by the code
- (b.) allowed only when the receptacle is factory connected to the heater circuit
- (c.) not allowed to be used as the required receptacle outlet for flexible cords with attachment plugs, when wired on a separate circuit from the heater circuit
- (d.) allowed to be used in lieu of the required receptacle outlet for flexible cords with attachment plugs, when wired on a separate circuit from the heater circuit

<d>35. Type FCC cable, cable connectors, and insulating ends shall be covered with carpet squares no larger than _____ square.

- | | |
|-----------|-----------|
| (a.) 24" | (c.) 36mm |
| (b.) 914" | (d.) 36" |

<c>36. Vegetation such as trees shall not be used for support of _____.

- (a.) lighting fixtures
- (b.) brackets or clamps
- (c.) overhead conductor spans
- (d.) none of these

37. Fixed electric space heating loads shall be computed at _____ % of the total connected load; however in no case shall a feeder load current be less than the rating of the largest branch circuit supplied.

- | | |
|----------|----------|
| (a.) 80 | (c.) 115 |
| (b.) 100 | (d.) 125 |

38. The adjustable speed drive incoming branch circuit or _____ to power conversion equipment included as a part of an adjustable speed drive system shall be based on the rated input to the power conversion equipment.

- | | |
|--------------|--------------------|
| (a.) service | (c.) lateral |
| (b.) feeder | (d.) none of these |

<a>39. Separation of junction box from motor shall be permitted to be separated from the motor not more than _____.

- (a.) 6 feet
- (b.) 4 feet
- (c.) 1.83
- (d.) none of these

<d>40. A single 1500w cord and plug connected load on 120v would draw _____ amps, this requires a number _____ wire and _____ circuit breaker for the branch circuit.

- (a.) 8-#14-15amp
- (b.) 10.5-#14-15amp
- (c.) 12.5-#14-15amp
- (d.) 12.5-#12-20amp

41. SE cable used to supply _____ shall not be subject to conductor temperature in excess of the temperature specified for the type of insulation involved.

- (a.) lighting
- (b.) appliances
- (c.) motors
- (d.) generators

<c>42. Torque motors are rated for operation _____.

- (a.) at full torque
- (b.) at F.L.C.
- (c.) at standstill
- (d.) with code letter

43. The rating of an overcurrent device for a capacitor shall be _____.

- (a.) not over 20amp
- (b.) as low as practicable
- (c.) less than 50amp
- (d.) none of these

<d>44. _____ of insulating material shall be permitted to be used without boxes in exposed cable wiring.

- I. switch devices
 - II. outlet devices
 - III. tap devices
- (a.) I only
 - (b.) II only
 - (c.) III only
 - (d.) I, II & III

<d>45. The following pool equipment shall be grounded _____.

- I. ground-fault circuit-interrupters
 - II. transformer enclosures
 - III. electric equipment located within 5 feet of the inside wall of the pool
- (a.) III only
 - (b.) II and III only
 - (c.) II only
 - (d.) I, II & III

<a>46. It is the intent of the Code that _____ wiring or the construction of equipment need not be inspected at the time of installation of the equipment, if the equipment has been listed by a qualified electrical testing laboratory.

- (a.) factory-installed internal
- (b.) factory-installed
- (c.) underground
- (d.) raceway

47. Distances fro signs, radio and TV antennas, tanks or other nonbuilding or nonbridge structures, clearances, vertical, diagonal and horizontal, shall not be less than _____ feet.

- (a.) 2
- (b.) 3
- (c.) 6
- (d.) 8

<c>48. Any motor application shall be considered as _____ unless the nature of the apparatus it drives is such that the motor will not operate continuously with load any condition of use.

- (a.) short-time duty
- (b.) varying duty
- (c.) continuous duty
- (d.) periodic duty

<a>49. An overcurrent trip unit of a circuit shall be connected in series with each _____.

- (a.) ungrounded conductor
- (b.) grounded conductor

- (c.) overcurrent device
- (d.) transformer

<a>50. The grounded conductor of a mineral-insulated, metal-sheathed cable shall be identified at the time of installation by _____ marking at its termination.

- (a.) distinctive
- (b.) neutral
- (c.) solid
- (d.) identified

