

**GEOGRAPHIC INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION CENTER
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***** EXAMINATION *****

**HEALTH CARE FACILITY ELECTRICAL INSTALLATIONS
ACCORDING TO THE 2005 NATIONAL ELECTRICAL CODE**

1. **The hazard current of the line isolation monitor alone is**
 - a) the monitor hazard current
 - b) the total hazard current
 - c) the fault hazard current
 - d) None of the above

2. **An isolated power system comprises**
 - a) an isolating transformer
 - b) a line isolation monitor
 - c) an underground circuit conductor
 - d) All of the above

3. **A psychiatric hospital contains**
 - a) two or more inpatients
 - b) four or more inpatients
 - c) six or more inpatients
 - d) eight or more inpatients

4. **A rating based on an operating interval of 5 minutes or longer is**
 - a) a short-time rating X-ray installation
 - b) a medium-time rating X-ray installation
 - c) a long-time rating X-ray installation
 - d) None of the above

5. **All branch circuits serving patient care areas shall be provided with**
 - a) a ground path for fault current by installation in a metal raceway
 - b) two or more conductors
 - c) three or more conductors
 - d) four or more conductors

6. **All receptacles carrying over**
 - a) 40 volts shall be grounded by an insulated copper conductor
 - b) 60 volts shall be grounded by an insulated copper conductor
 - c) 80 volts shall be grounded by an insulated copper conductor
 - d) 100 volts shall be grounded by an insulated copper conductor

7. **The separation between the service and feeder ground-fault**
 - a) tripping bands shall be a two-cycle minimum
 - b) tripping bands shall be a four-cycle minimum
 - c) tripping bands shall be a six-cycle minimum
 - d) tripping bands shall be a eight-cycle minimum
8. **Operating time of the disconnecting devices in selecting the time**
 - a) spread between these two bands to achieve 40% selectivity
 - b) spread between these two bands to achieve 60% selectivity
 - c) spread between these two bands to achieve 80% selectivity
 - d) spread between these two bands to achieve 100% selectivity
9. **Each patient bed location shall be supplied with a**
 - a) branch circuit from the emergency system
 - b) branch circuit from the normal system
 - c) both a and b
 - d) at least three branch circuits
10. **Each general care patient bed location shall be provided with a**
 - a) minimum of one receptacle
 - b) minimum of two receptacles
 - c) minimum of three receptacles
 - d) minimum of four receptacles
11. **Receptacles located within the rooms shall be listed**
 - a) tamper resistant
 - b) acoustically sound
 - c) tamper free
 - d) All of the above
12. **The emergency system shall be limited to circuits essential to**
 - a) life safety
 - b) critical patient care
 - c) both a and b
 - d) infant care
13. **The number of transfer switches to be used shall be based on**
 - a) reliability considerations
 - b) design considerations
 - c) load considerations
 - d) All of the above
14. **The life safety branch and critical branch of the emergency system**
 - a) shall be kept entirely dependent on all other wiring
 - b) shall be kept entirely independent on all other wiring
 - c) shall be kept partially dependent on other wiring
 - d) None of the above

15. **The branches of the emergency system shall be installed to**
 - a) automatically restore operations within 10 seconds
 - b) automatically restore operations within 20 seconds
 - c) automatically restore operations within 30 seconds
 - d) automatically restore operations within 60 seconds
16. **Automatic connection to the alternate power sources shall include**
 - a) the transfer fuel pump
 - b) electrically operated louvers
 - c) devices for operation of generators
 - d) All of the above
17. **Storage devices for flexible cords shall not subject the cord to**
 - a) a bending radius of less than one inch
 - b) a bending radius of less than two inches
 - c) a bending radius of less than three inches
 - d) a bending radius of less than four inches
18. **Equipment need not be grounded in operating at less than**
 - a) 10 volts
 - b) 20 volts
 - c) 30 volts
 - d) 40 volts
19. **Isolating-type transformers for supplying low-voltage circuits shall have**
 - a) approved means for insulating the secondary circuit from the primary
 - b) the core and case grounded
 - c) both a and b
 - d) either a or b
20. **The No. 1 isolated conductor shall be**
 - a) yellow
 - b) orange
 - c) green
 - d) brown

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