

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

**ELEVATORS, DUMBWAITERS, ESCALATORS, ETC.
ACCORDING TO THE 2005 NATIONAL ELECTRICAL CODE**

1. **Where the voltage of a power circuit exceeds 600 volts, a warning sign**
 - a) 'DANGER -- HIGH VOLTAGE' should be attached to the equipment
 - b) 'DANGER -- 600 VOLTS' should be attached to the equipment
 - c) 'WARNING -- EXCESS VOLTAGE' should be attached to the equipment
 - d) Any of the above

2. **Branch circuits for heating and air-conditioning equipment located on the**
 - a) elevator car shall not have a circuit voltage in excess of 120 volts
 - b) elevator car shall not have a circuit voltage in excess of 240 volts
 - c) elevator car shall not have a circuit voltage in excess of 360 volts
 - d) elevator car shall not have a circuit voltage in excess of 600 volts

3. **All conductors in raceways shall have**
 - a) grounded splices
 - b) extra circuit breakers
 - c) flame-retardant insulation
 - d) asbestos insulation

4. **For lighting circuits, copper conductors shall be permitted**
 - a) in serial
 - b) in parallel
 - c) in a wireless LAN
 - d) in a USB arrangement

5. **Conductors supplying a single motor controller shall have an ampacity**
 - a) not more than the motor controller nameplate current rating
 - b) not less than the motor controller nameplate current rating
 - c) all connected loads
 - d) None of the above

6. **The feeder demand factor for six elevators on a single feeder is**
 - a) 0.72
 - b) 0.75
 - c) 0.79
 - d) 0.95

7. **Flexible metal conduit shall be permitted on cars when not exceeding**
 - a) 6 feet in length
 - b) 8 feet in length
 - c) 10 feet in length
 - d) 12 feet in length
8. **Hard-service cords only shall be permitted as flexible connections**
 - a) for the car-top work light
 - b) for areas inside the car
 - c) for areas near fan motors
 - d) None of the above
9. **Support intervals for tape cable groups in machine rooms shall not exceed**
 - a) two feet
 - b) three feet
 - c) four feet
 - d) five feet
10. **Counterweight assemblies shall not exceed lengths of**
 - a) 2 feet
 - b) 4 feet
 - c) 6 feet
 - d) 8 feet
11. **Flexible conduit shall be permitted in escalators but not exceed**
 - a) 2 feet
 - b) 4 feet
 - c) 6 feet
 - d) 8 feet
12. **Each separate branch circuit located in an elevator machine room**
 - a) may supply car lights
 - b) may supply receptacles
 - c) may supply auxiliary lighting power sources
 - d) Any of the above
13. **The air-conditioning and heating unit on each elevator card shall be**
 - a) supplied by a dedicated branch circuit
 - b) supplied by a branch circuit and 2 other devices
 - c) supplied by a branch circuit and 4 other devices
 - d) supplied by a branch circuit and unlimited other devices
14. **The control space lighting switch shall be located**
 - a) within 10 feet of the point of entry
 - b) within 20 feet of the point of entry
 - c) within 30 feet of the point of entry
 - d) at the point of entry

15. **Each machine room shall be provided with**
 - a) at least one 125-volt, single phase, duplex receptacle
 - b) at least two 125-volt, single phase, duplex receptacles
 - c) at least one 125-volt, dual phase, duplex receptacle
 - d) at least two 125-volt, dual phase, duplex receptacles
16. **The lighting switch for hoistway pit lighting shall be accessible**
 - a) from the elevator door
 - b) from the front building door
 - c) from the rear building door
 - d) from the pit access door
17. **The hoistway pit shall be provide with**
 - a) at least one 125-volt, single phase, duplex receptacle
 - b) at least two 125-volt, single phase, duplex receptacles
 - c) at least one 125-volt, dual phase, duplex receptacle
 - d) at least two 125-volt, dual phase, duplex receptacles
18. **The overcurrent devices protecting the branch circuits for utilization**
 - a) equipment shall be located in the elevator machinery room
 - b) equipment shall be located in the control room
 - c) equipment shall be located in the control space
 - d) Any of the above
19. **The sum of the X-sectional area of the individual conductors in a wireway**
 - a) shall not be more than 30% of the interior X-sectional area of the wireway
 - b) shall not be more than 50% of the interior X-sectional area of the wireway
 - c) shall not be more than 70% of the interior X-sectional area of the wireway
 - d) shall not be more than 90% of the interior X-sectional area of the wireway
20. **On wheelchair lifts, the disconnecting means shall be located within**
 - a) 10 feet of the motor controller
 - b) 20 feet of the motor controller
 - c) sight of the motor controller
 - d) reach of the motor controller

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