

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

FIRE PUMPS ACCORDING TO THE 2005 NATIONAL ELECTRICAL CODE

1. **A power source for an electric motor-driven fire pumps may be**
 - a) an electric utility service connection only
 - b) an on-site power production facility only
 - c) either a or b
 - d) None of the above

2. **The fire pump connection shall be located**
 - a) to minimize use
 - b) to minimize the possibility of damage by a fire
 - c) to easily switch to a generator
 - d) All of the above

3. **A tap ahead of the on-site generator disconnecting means**
 - a) shall not be required
 - b) shall be required
 - c) depends on the voltage requirements
 - d) depends on the amperage requirements

4. **The power sources shall be arranged so that a fire at one source**
 - a) will cause an interruption at the other source
 - b) will not cause an interruption at the other source
 - c) will enable the electrical service connection
 - d) will set off an alarm

5. **The supply connectors shall directly connect the power source to**
 - a) a listed fire pump controller only
 - b) a listed combination fire pump controller & power transfer switch
 - c) either a or b
 - d) None of the above

6. **The disconnecting means shall comply with being**
 - a) identified as suitable for use as service equipment
 - b) lockable in the closed position
 - c) located within equipment that feeds loads other than the fire pump
 - d) All of the above

7. **The letters marking the disconnecting means shall be**
 - a) at least one inch in height
 - b) at least two inches in height
 - c) at least three inches in height
 - d) at least four inches in height
8. **A placard shall be placed adjacent to the fire pump controller**
 - a) stating the location of its disconnecting means
 - b) stating the location of the key if the means is locked
 - c) both a and b
 - d) None of the above
9. **The disconnecting means shall be supervised in the closed position**
 - a) by a central station
 - b) by a remote station signal device
 - c) by locking the disconnecting means in the closed position
 - d) Any of the above
10. **Secondary overcurrent protection**
 - a) shall be permitted in special cases
 - b) shall be not be permitted
 - c) shall be permitted for transformers utilizing less than 120 volts
 - d) shall be permitted for transformers utilizing less than 240 volts
11. **Supply conductors shall be physically routed**
 - a) outside a building
 - b) inside a building
 - c) inside the attic
 - d) Any of the above
12. **All wiring from the controllers to the pump motors shall be**
 - a) rigid metal conduit
 - b) intermediate metal conduit
 - c) liquid tight flexible metal conduit
 - d) Any of the above
13. **All wiring from engine controllers and batteries shall be**
 - a) installed in accordance with the owner's specifications
 - b) installed in accordance with the electrician's normal procedure
 - c) installed in accordance with the manufacturer's instructions
 - d) None of the above
14. **The voltage at the controller line terminals shall not drop more**
 - a) than 10% below normal under motor starting conditions
 - b) than 15% below normal under motor starting conditions
 - c) than 20% below normal under motor starting conditions
 - d) than 25% below normal under motor starting conditions

15. **Equipment listed for fire pump service includes:**
 - a) electric fire pump controllers
 - b) electric motors
 - c) foam pump controllers
 - d) All of the above

16. **Engine-drive fire pump controllers shall be located**
 - a) as close as practical to the motor that they control
 - b) in the same building
 - c) in the same building complex
 - d) Any of the above

17. **Storage batteries for fire pump engine drive shall be**
 - a) supported above the floor
 - b) secured against displacement
 - c) located where they are not subject to physical damage
 - d) All of the above

18. **All energized equipment parts shall be located at least**
 - a) 8 inches above the floor level
 - b) 10 inches above the floor level
 - c) 12 inches above the floor level
 - d) 14 inches above the floor level

19. **All fire pump control equipment shall be**
 - a) located outside the building
 - b) mounted in a substantial manner on noncombustible supports
 - c) located in the basement
 - d) None of the above

20. **All wiring between the controller and the diesel engine shall be**
 - a) stranded
 - b) twisted
 - c) braided
 - d) Any of the above

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*** ANSWER SHEET *** U272 FIRE PUMPS ACCORDING TO THE 2005 NATIONAL ELECTRICAL CODE	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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I hereby certify that I studied the course materials, and the above answers are my own. No other person has helped me to complete this exam.

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