GEOGRAPHIC INFORMATION SYSTEMS **1-800-522-0139**
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***** EXAMINATION *****

GAS DISTRIBUTION

1. **Planning and design for gas distribution systems should consider**

   a) economy
   b) safety
   c) uniformity of pressure
   d) All of the above

2. **A high-pressure gas distribution piping system operates at a pressure**

   a) higher than the standard service pressure delivered to the user
   b) higher than the pressure delivered to the plant
   c) higher than the pressure delivered to the main valve
   d) None of the above

3. **Gas distribution system lines may be installed under a building**

   a) if the building has a concrete foundation thicker than 12 inches
   b) if the building has a concrete foundation thicker than 18 inches
   c) if the building has a concrete foundation thicker than 24 inches
   d) Never

4. **Gas distribution system lines may be laid in the same trench as**

   a) sewer lines
   b) drainage lines
   c) water lines
   d) None of the above

5. **Gas lines crossing other utility lines should be laid**

   a) between the other utility lines
   b) above the other utility lines
   c) below the other utility lines
   d) Any of the above

6. **All lines transmitting manufactured gas shall have**

   a) drips installed at all high points
   b) drips installed every 500 feet
   c) drips installed at all low points
   d) None of the above

7. **Natural gas lines should**

a) have a positive grade and use compressor stations at low points
b) have a negative grade and use compressor stations at high points
c) follow the contour of the ground surface
d) None of the above

8. **The spacing of valves should consider**

a) the operating pressure
b) the size of the mains
c) local physical conditions
d) All of the above

9. **The distance between the valve and the regulator should be**

a) sufficient in case of a fire at the regulator station
b) small to enable the regulator operator to shut off the valve
c) large for security reasons
d) None of the above

10. **Pressure regulators are installed at all points**

a) where an increase in pressure is necessary
b) where a reduction in pressure is necessary
c) where compressor stations are too costly
d) Any of the above

11. **Weight-loaded relief valves are used to**

a) shut off the gas during fires
b) shut off the gas after an explosion
c) prevent accidental overpressurizing
d) All of the above

12. **A spring-loaded diaphragm type relief valve is used to**

a) shut off the gas during fires
b) shut off the gas after an explosion
c) prevent accidental overpressurizing
d) All of the above

13. **A pressure relief device should be designed to**

a) check for corrosion
b) check for telemetering
c) check for installation
d) None of the above

14. **Underground ferrous gas distribution lines require**

a) twenty feet of ground cover
b) thirty feet of ground cover
c) cathodic protection
d) None of the above

15. **A suitable odor injected for gases without a distinctive odor is**

a) a suitable malodorous agent
b) methane
c) propane
d) octane

16. **LPG systems may use**

a) polyethylene pipe
b) fiberglass pipe
c) gases without odor
d) None of the above

17. **The plans for an entire distribution system shall show**

a) pipe sizes
b) the location of gas mains
c) service connections and regulators
d) All of the above

18. **On a short-term basis, design stress levels for plastics will be**

a) relatively low
b) relatively high
c) always dependent on the ambient temperature
d) None of the above

19. **A design parameter for a plastic piping system includes**

a) the length from the compressor station
b) the availability of fittings for fabricating in the field
c) the date of installation
d) None of the above

20. **The frictional resistance of plastic pipe is**

a) less than that of steel pipe
b) more than that of steel pipe
c) equal to that of steel pipe
d) None of the above

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***** ANSWER SHEET *** U250** **GAS DISTRIBUTION**	**STATE BOARD COURSE NO. VALUE** **8 PDH** **Office Use Only**

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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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