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***** EXAMINATION *****

OSHA GUIDELINES FOR PRESSURE VESSELS

1. **A consequence resulting from a complete vessel rupture is**
 - a) fragment damage
 - b) employee termination
 - c) pay reductions
 - d) Any of the above

2. **Sudden expansion of the pressurized fluid may result in a**
 - a) blast
 - b) increase in profits
 - c) a loss of liquid products
 - d) All of the above

3. **Leakage failure may cause**
 - a) poisoning
 - b) fires
 - c) chemical burns
 - d) Any of the above

4. **Between the vessel and the safety valve**
 - a) there shall be no valves or T-fittings
 - b) there shall be a maximum of one valve
 - c) there shall be a maximum of two valves
 - d) there shall be a maximum of three valves

5. **Most pressure vessels have been designed in accordance with**
 - a) American Society of Mechanical Engineers Code
 - b) American Petroleum Institute Code
 - c) American Society of Civil Engineers Code
 - d) both a and b

6. **Vessel certification can be performed by**
 - a) mechanical engineers with no experience
 - b) trained inspectors qualified for each code
 - c) the original designers of the plans
 - d) Any of the above

7. **Certification requires**
- a) written tests and design experience
 - b) oral tests and design experience
 - c) written tests and practical experience
 - d) Any of the above
8. **Removal of noncondensable gases is known as**
- a) deaeration
 - b) aeration
 - c) activation
 - d) reactivation
9. **Material for deaerator vessels is**
- a) lead steel alloy
 - b) carbon steel grade
 - c) rubidium lead alloy
 - d) Any of the above
10. **The predominant mechanism of crack formation and growth is**
- a) corrosion fatigue
 - b) melting
 - c) steam
 - d) Any of the above
11. **The method of inspection recommended by the National Association**
- a) of Corrosion Engineers is fluorescent molding
 - b) of Corrosion Engineers is fluorescent activation
 - c) of Corrosion Engineers is wet fluorescent magnetic particle
 - d) of Corrosion Engineers is magnetic acceleration
12. **During the inspection process, special attention should be given to**
- a) the internal surface of all welds and heat-affected zones
 - b) the outer surface of all welds and heat-affected zones
 - c) all valves
 - d) all meters
13. **Amine is used to remove**
- a) hydrogen sulfide from water
 - b) hydrogen sulfide from petroleum gases
 - c) carbon monoxide from water
 - d) carbon monoxide from petroleum gases
14. **The wall thickness of pressure vessels in amine plants is**
- a) typically about 1 inch
 - b) typically about 2 inches
 - c) typically about 3 inches
 - d) typically about 4 inches

15. **An ultrasonic test is a detection methods for**
- a) leaky valves
 - b) distillate
 - c) poor chemicals
 - d) cracks
16. **Hydrogen dissolved in steel can cause**
- a) cracking
 - b) blistering
 - c) embrittlement
 - d) All of the above
17. **Cracks occur**
- a) only parallel to the weld direction
 - b) only transverse to the weld direction
 - c) both parallel and transverse to the weld direction
 - d) None of the above
18. **Possible preventive measures for cracking includes**
- a) weld cladding
 - b) spray coatings
 - c) anodic protection
 - d) All of the above
19. **Gamma and X-ray radiography is**
- a) a volumetric method
 - b) a surface examination method
 - c) both a volumetric method and surface examination method
 - d) no longer used
20. **An ultrasonic test is**
- a) a volumetric method
 - b) a surface examination method
 - c) both a volumetric method and surface examination method
 - d) no longer used

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*** ANSWER SHEET *** U302 OSHA GUIDELINES FOR PRESSURE VESSELS	<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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