

**\*\*\* EXAMINATION \*\*\***

**DESIGN OF SMOKE CONTROL SYSTEMS FOR ELEVATOR  
FIRE EVACUATION INCLUDING WIND EFFECTS**

1. **The proposed solution for providing safety for persons with**
  - a) mobility limits is an safety lobby concept
  - b) mobility limits is an area of concern concept
  - c) mobility limits is an emergency escalator evacuation concept
  - d) mobility limits is an emergency elevator evacuation system
  
2. **The vertical transport vehicle that efficiently move people or**
  - a) goods between floors of a building is escalator
  - b) goods between floors of a building is cable car
  - c) goods between floors of a building is elevator
  - d) goods between floors of a building is crew car
  
3. **Smoke control systems must be designed to maintain design**
  - a) pressure differences with both opened and closed windows
  - b) pressure differences with both opened and closed doors
  - c) pressure differences with both broken windows and doors
  - d) pressure differences with both stairways and hoist ways
  
4. **The smoke control systems should be able to maintain adequate**
  - a) pressurization under likely conditions of open doors
  - b) pressurization under likely conditions of closed doors
  - c) pressurization under likely conditions of broken windows
  - d) All of the above
  
5. **The relative measure of a device on its efficiency at**
  - a) allowing fluid flow is the flow coefficient
  - b) allowing fluid flow is the flow separation
  - c) allowing fluid flow is the pressure coefficient
  - d) allowing fluid flow is the pressure velocity
  
6. **The dimensionless number which describes the relative**
  - a) pressures throughout a flow field is flow coefficient
  - b) pressures throughout a flow field is flow separation
  - c) pressures throughout a flow field is pressure coefficient
  - d) pressures throughout a flow field is pressure velocity

7. **The wind far above the earth with constant elevation**
- a) is referred to as the prevailing wind
  - b) is referred to as the gradient wind
  - c) is referred to as the foehn wind
  - d) is referred to as the trade wind
8. **A smoke control system should be designed to pressurized the**
- a) EEES to prevent smoke flow in the system
  - b) EEES to prevent smoke circulation in the system
  - c) EEES to prevent smoke increase in the system
  - d) EEES to prevent smoke decrease in the system
9. **The parameters of the EEES concept includes**
- a) elevator equipment and elevator shaft
  - b) machine room
  - c) elevator lobby
  - d) All of the above
10. **The concern for the parameters of EEES concept includes**
- a) loss of electrical power
  - b) overheating of elevator machine room equipment
  - c) protection from flame, smoke and water
  - d) All of the above
11. **The Life Safety Code states that the force required opening**
- a) any door used for a means of egress shall not exceed 133 N
  - b) any door used for a means of egress shall not exceed 143 N
  - c) any door used for a means of egress shall not exceed 153 N
  - d) any door used for a means of egress shall not exceed 163 N
12. **Pressure not caused by motion at a point on the surface of an**
- a) object moving free in a flowing fluid is surface pressure
  - b) object moving free in a flowing fluid is static pressure
  - c) object moving free in a flowing fluid is low pressure
  - d) object moving free in a flowing fluid is negative pressure
13. **The device that responds to changes in ambient temperature is**
- a) automatic fire suppression
  - b) safe load indicator
  - c) heat detector
  - d) pressure relief valve
14. **The force equal to the magnitude of the weight of fluid**
- a) displaced by the body is a nuclear force
  - b) displaced by the body is an electrostatic force
  - c) displaced by the body is a normal force
  - d) displaced by the body is a buoyancy force

15. **The degree to which something can be achieved or put into**
- a) effect is called feasibility
  - b) effect is called permeability
  - c) effect is called flexibility
  - d) effect is called conductibility
16. **The state of being in motion is**
- a) permeability
  - b) accessibility
  - c) stability
  - d) mobility
17. **The vertical space in a building where stairs are located**
- a) is a tread
  - b) is a stairwell
  - c) is a riser
  - d) is a winder
18. **The gradual escape or entrance of something such as oil,**
- a) gas, or air is an infiltrate
  - b) gas, or air is a vapor
  - c) gas, or air is a leakage
  - d) gas, or air is a condensate
19. **The mixture of gases that composes the atmosphere**
- a) surrounding earth is air
  - b) surrounding earth is water
  - c) surrounding earth is fire
  - d) surrounding earth is mineral
20. **The collection of airborne solid and liquid particulates**
- a) and gases is flame
  - b) and gases is rain
  - c) and gases is moisture
  - d) and gases is smoke

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<b>*** ANSWER SHEET *** U623</b>  <b>DESIGN OF SMOKE CONTROL SYSTEMS FOR          ELEVATOR FIRE EVACUATION INCLUDING          WIND EFFECTS</b>	<b>STATE BOARD</b>	<b>COURSE NO.</b>	<b>VALUE</b>
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