

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

**EFFECT OF POSITIVE PRESSURE VENTILATION ON A ROOM FIRE**

1. **The process used by fire fighters to ventilate a structure**
  - a) after extinguishing it is positive pressure ventilation
  - b) after extinguishing it is negative pressure ventilation
  - c) after extinguishing it is airway resistance
  - d) after extinguishing it is respiratory minute volume
2. **The intentional movement of air from outside a building to**
  - a) the inside is called vaporization
  - b) the inside is called ventilation
  - c) the inside is called infiltration
  - d) the inside is called filtration
3. **The guideline set by the manufacturer as a maximum power**
  - a) to be used with that device is power gain
  - b) to be used with that device is slew rate
  - c) to be used with that device is power rating
  - d) to be used with that device is stray voltage
4. **The pressure of gases or liquids is typically measured by**
  - a) a proximity sensor
  - b) a current sensor
  - c) a piezoelectric sensor
  - d) a pressure transducers
5. **The ratio of fuel mass flow to the total mass flow of a fuel**
  - a) mixture is fuel velocity
  - b) mixture is fuel load
  - c) mixture is fuel flow
  - d) mixture is fuel mass fraction
6. **The category of polymers which contain the ester functional**
  - a) group in their main chain is stanol ester
  - b) group in their main chain is sterol ester
  - c) group in their main chain is polyester
  - d) group in their main chain is dibasic ester

7. **The temporary electrical connector functioning much like a**
- a) spring-loaded clothespin is a slip ring
  - b) spring-loaded clothespin is an alligator clip
  - c) spring-loaded clothespin is a power strip
  - d) spring-loaded clothespin is a line filter
8. **The near simultaneous ignition of all combustible material**
- a) in an enclosed area is called flashover
  - b) in an enclosed area is called flashpoint
  - c) in an enclosed area is called flashlight
  - d) in an enclosed area is called power flash
9. **The process by which a body loses a heat by radiation is**
- a) radiative cooling
  - b) radiative forcing
  - c) radiative transfer
  - d) radiative flux
10. **The readings from the pressure transducers are used to**
- a) increase gas flow
  - b) generate gas velocities
  - c) decrease gas flow
  - d) dispose gas velocities
11. **The electronic device used to convert a force into an**
- a) electrical signal is a float switch
  - b) electrical signal is a torque sensor
  - c) electrical signal is a load cell
  - d) electrical signal is a voltage detector
12. **The process of supplying and removing air through an indoor**
- a) space by natural means is mechanical ventilation
  - b) space by natural means is forced ventilation
  - c) space by natural means is infiltration
  - d) space by natural means is natural ventilation
13. **The internal combustion engine with spark-ignition designed**
- a) to run on petroleum is gasoline engine
  - b) to run on petroleum is gas engine
  - c) to run on petroleum is diesel engine
  - d) to run on petroleum is crude oil engine
14. **The phenomenon that occurs in aquatic environments as**
- a) dissolved oxygen is oxygen saturation
  - b) dissolved oxygen is oxygen depletion
  - c) dissolved oxygen is oxygen evolution
  - d) dissolved oxygen is oxygen therapy

15. **The measure of the distance at which an object or light can**
- a) be clearly discerned is conductivity
  - b) be clearly discerned is emissivity
  - c) be clearly discerned is visibility
  - d) be clearly discerned is vitality
16. **The outflowing of water from a natural body of water or man**
- a) made structure is hypoxia
  - b) made structure is trophort
  - c) made structure is bioreporter
  - d) made structure is effluent
17. **The change of state brought about by the passage of time**
- a) applicable to systems with internal state is time dilation
  - b) applicable to systems with internal state is time loop
  - c) applicable to systems with internal state is time signal
  - d) applicable to systems with internal state is time evolution
18. **The device that converts one type of energy to another for**
- a) various purposes is a transducer
  - b) various purposes is a generator
  - c) various purposes is a capacitor
  - d) various purposes is a resistor
19. **The measure of the linear combustion rate of a compound**
- a) such as propellant is power rate
  - b) such as propellant is burning rate
  - c) such as propellant is flow rate
  - d) such as propellant is heat release rate
20. **The system used in alignment with smoke and fire alarm systems**
- a) to improve public safety are dynamical systems
  - b) to improve public safety are complex adaptive systems
  - c) to improve public safety are fire suppression systems
  - d) to improve public safety are deterministic systems

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<b>*** ANSWER SHEET *** U648</b>  <b>EFFECT OF POSITIVE PRESSURE          VENTILATION ON A ROOM FIRE</b>	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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