

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

**BURNING BEHAVIOR OF SELECTED AUTOMOTIVE PARTS FROM A SPORTS COUPE**

1. **The rate of mass flows across a unit area**
  - a) is a mass flux
  - b) is an energy flux
  - c) is a radiative flux
  - d) is a heat flux
  
2. **The science of measuring the heat of chemical reactions**
  - a) is stoichiometry
  - b) is calorimetry
  - c) is autocatalytic reaction
  - d) is catalytic cycle
  
3. **A gray to dark-gray to black oil shale whose**
  - a) bituminite organic components is lamosite
  - b) bituminite organic components is kukersite
  - c) bituminite organic components is torbanite
  - d) bituminite organic components is marinite
  
4. **The amount of energy moving in the form of photons at a**
  - a) certain distance is radiative flux
  - b) certain distance is heat flux
  - c) certain distance is energy flux
  - d) certain distance is mass flux
  
5. **A modern device that studies the fire behavior of samples**
  - a) materials in condensed phase is a bomb calorimeter
  - b) materials in condensed phase is a reaction calorimeter
  - c) materials in condensed phase is a cone calorimeter
  - d) materials in condensed phase is a adiabatic calorimeter
  
6. **The junction between two different metals that produce a**
  - a) voltage is a thermostat
  - b) voltage is a thermocouple
  - c) voltage is a thermodynamic
  - d) voltage is a thermal inertia

7. **A thermoplastic substance resistant to fatigue**
- a) is polypropylene
  - b) is polyethylene
  - c) is polystyrene
  - d) is polyvinyl chloride
8. **The generic designation for a family of synthetic polymers**
- a) known as polyamides is silicone
  - b) known as polyamides is neoprene
  - c) known as polyamides is bakelite
  - d) known as polyamides is nylon
9. **A measure of impenetrability to electromagnetics or other**
- a) kind of radiation like visible light is the absorptivity
  - b) kind of radiation like visible light is the opacity
  - c) kind of radiation like visible light is the reflection
  - d) kind of radiation like visible light is the scattering
10. **The most widely used plastic for**
- a) packaging is polypropylene
  - b) packaging is polyethylene
  - c) packaging is polystyrene
  - d) packaging is polyvinyl chloride
11. **A fluid which flows through a device to prevent its**
- a) overheating is the coolant
  - b) overheating is the refrigerant
  - c) overheating is the lubricant
  - d) overheating is the engine oil
12. **An organic compound widely used as automotive antifreeze**
- a) is acridine orange
  - b) is acryloyl chloride
  - c) is ethylene glycol
  - d) is diisooheptyl phthalate
13. **The near simultaneous ignition of all combustible material**
- a) in an enclosed area is combustion
  - b) in an enclosed area is flashover
  - c) in an enclosed area is an endpoint
  - d) in an enclosed area is a flash point
14. **An angle greater than 90 degrees and less than 180 degrees**
- a) is an acute angle
  - b) is a reflex angle
  - c) is a straight angle
  - d) is an obtuse angle

15. **The chemical decomposition of condensed substance by heating**
- a) is pyrolysis
  - b) is hydrolysis
  - c) is dry distillation
  - d) is cracking
16. **The upward force that keeps things afloat is**
- a) thrust
  - b) velocity
  - c) buoyancy
  - d) density
17. **The bulk material property related to thermal conductivity**
- a) and volumetric heat capacity is a thermal inversion
  - b) and volumetric heat capacity is a thermal inertia
  - c) and volumetric heat capacity is a thermal diffusion
  - d) and volumetric heat capacity is a thermal plume
18. **Cooling internal combustion engines is**
- a) accomplished by a radiator
  - b) accomplished by a coolant
  - c) accomplished by a refrigerant
  - d) accomplished by a lubricant
19. **A three-carbon alkane, normally a gas, but compressible**
- a) to a transportable liquid is called a butane
  - b) to a transportable liquid is called a methane
  - c) to a transportable liquid is called a propane
  - d) to a transportable liquid is called a ethane
20. **The visible gaseous part of a fire is**
- a) heat
  - b) light
  - c) plasma
  - d) a flame

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<b>*** ANSWER SHEET *** U584</b>  <b>BURNING BEHAVIOR OF SELECTED          AUTOMOTIVE PARTS FROM A SPORTS          COUPE</b>	<u>STATE BOARD</u>	<u>COURSE NO.</u>	<u>VALUE</u>
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