

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

**THE USE OF NOMENCLATURE IN DISPERSION SCIENCE AND TECHNOLOGY**

1. **A reversible time-dependent decrease in viscosity at a**
  - a) particular shear rate is thixotropy
  - b) particular shear rate is rheopoxy
  - c) particular shear rate is rheomalaxis
  - d) particular shear rate is rheology
  
2. **A sol in which the water forms the dispersion medium is**
  - a) an aerosol
  - b) a hydrosol
  - c) a organosol
  - d) a phyrosol
  
3. **The dispersion that consists of two or more liquid phases**
  - a) is a slip
  - b) is an emulsion
  - c) is a suspension
  - d) is an explosion
  
4. **Droplets or particles dispersed in a gaseous phase is**
  - a) the aerosol
  - b) the hydrosol
  - c) the organosol
  - d) the phyrosol
  
5. **A description of the polydisperse particulate system is the**
  - a) well-dispersed
  - b) monodisperse
  - c) heterodisperse
  - d) polydisperse
  
6. **The collection of objects with the same shape**
  - a) particles is well-dispersed
  - b) particles is monodisperse
  - c) particles is heterodisperse
  - d) particles is polydisperse

7. **A collection of objects with a broad range of size, shape**
- a) and mass particles is called well-dispersed
  - b) and mass particles is called monodisperse
  - c) and mass particles is called heterodisperse
  - d) and mass particles is called polydisperse
8. **The sol in which the organic liquids forms the dispersion**
- a) medium is an aerosol
  - b) medium is a hydrosol
  - c) medium is an organosol
  - d) medium is a pyrosol
9. **The particles in a suspension, gel or aerosol is**
- a) a particulate phase
  - b) a liquid phase
  - c) a disperse phase
  - d) a continuous phase
10. **A type of chemical mixture where one substance is dispersed**
- a) evenly throughout another is the creosote
  - b) evenly throughout another is the colloid
  - c) evenly throughout another is the bitumen
  - d) evenly throughout another is the ouzo effect
11. **The formation of aggregate in a suspension through physical**
- a) or electrostatic forces is coagulation
  - b) or electrostatic forces is fusion
  - c) or electrostatic forces is agglomeration
  - d) or electrostatic forces is flocculation
12. **The process of aggregation induced by hydrodynamic motions**
- a) is orthokinetic aggregation
  - b) is perikinetic aggregation
  - c) is heteroagglomeration
  - d) is heteroflocculation
13. **The boundary between two immiscible phases, at least one of**
- a) which is condensed, is an interface
  - b) which is condensed, is an interfacial region
  - c) which is condensed, is a surface region
  - d) which is condensed, is an inner region
14. **The motion of charged particles in an applied electric field**
- a) is electrokinetics
  - b) is electrophoresis
  - c) is electro-osmosis
  - d) is acoustophoresis

15. **The induced motion of particles subjected to an acoustic**
- a) field is electrokinetics
  - b) field is electrophoresis
  - c) field is electroacoustic
  - d) field is acoustophoresis
16. **A type of surface in which the same surface group is able to**
- a) function as both an acid and a base is the zwitterionic
  - b) function as both an acid and a base is the amphoteric
  - c) function as both an acid and a base is the hydrophillic
  - d) function as both an acid and a base is the hydrophobic
17. **The type of surface in which two distinct surface groups**
- a) are present is a zwitterionic
  - b) are present is a amphoteric
  - c) are present is a hydrophillic
  - d) are present is a hydrophobic
18. **The ratio of the viscosity of a fluid to its density**
- a) is intrinsic viscosity
  - b) is inherent viscosity
  - c) is kinematic viscosity
  - d) is dynamic viscosity
19. **A flow without turbulence is**
- a) the dynamic shear flow
  - b) the laminar flow
  - c) the equilibrium flow
  - d) the poiseuille flow
20. **The irreversible decrease of viscosity during shearing**
- a) is rheopexy
  - b) is thixotropy
  - c) is negative thixotropy
  - d) is rheomalaxis

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