

- Q.22 Describe working of ball mill.
 - Q.23 Explain sieve analysis process.
 - Q.24 Explain Vibrating screens.
 - Q.25 Name properties of fluids.
 - Q.26 Write applications of Bernoulli's equation.
 - Q.27 Name equipments that can be used to determine particle size.
 - Q.28 Write objectives of agitation.
 - Q.29 Explain modes of heat transfer.
 - Q.30 Describe working of spray drier.
 - Q.31 Explain critical speed and capacity of ball mills.
 - Q.32 Define open and closed system.
 - Q.33 Define System and surroundings.
 - Q.34 Explain homogeneous and heterogeneous system.
 - Q.35 Explain working of jaw crusher.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain determination of granular size by sieve analysis.

Q.37 Explain working of different types of conveyors.

Q.38 Define filtration. Explain construction and working of filter press

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3rd Sem / Ceramic Engineering

Subject:- Ceramic Industrial Operations/ Unit operations in Ceramic Industries

Time : 3Hrs. M.M. : 100

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is true for laminar flow

 - Fluid layers move in straight lines.
 - Fluid layers do not move in straight lines
 - Both A & B
 - None of these

Q.2 The units of viscosity in SI system is

 - Centi poise
 - Poise
 - Dyne
 - Newton

Q.3 Particle size of solid can be determined by

 - Microscope
 - Sieving
 - Sedimentation
 - All of these

Q.4 Which of the following machine is used for coarse size reduction

 - Ball mill
 - Jaw crusher
 - Attritor
 - Hammer mill

- Q.5 Which of the following is example of permanent installations for material conveying
 a) Belt conveyor b) Chain conveyor
 c) Screw conveyor d) All of these
- Q.6 The SI units of density is
 a) kg/m^3 b) g/cm^3
 c) kg/cm^3 d) g/m^3
- Q.7 Heat transfer in solids takes place by _____ mode.
 a) Conduction b) Convection
 c) Radiation d) All of these
- Q.8 Which of the following is NOT a system in thermodynamics
 a) Open b) Closed
 c) Isolated d) Surroundings
- Q.9 In which of the following system only energy transfer takes place
 a) Open b) Closed
 c) Isolated d) Surroundings
- Q.10 System consisting single phase is called a
 a) Homogeneous system
 b) Heterogeneous system
 c) Open system
 d) Closed system

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The density is the ratio of mass _____. (Volume/Area)
- Q.12 The cgs unit of viscosity is _____. (Poise / Centipoise)
- Q.13 Particle size can be determined with the help of _____. (ball mill / sieve)
- Q.14 Specific volume is the volume occupied by per unit _____. (mass/area)
- Q.15 Dry mixer can be used to mix two slips. (True/False)
- Q.16 Conveyors can be used to _____ the materials. (Transport / mix)
- Q.17 Filter press can be used to separate solids from liquids. (True/False)
- Q.18 Jaw crusher is one type of milling equipment. (True / False)
- Q.19 Mixing can be carried out in agitator. (True/False)
- Q.20 In heterogeneous system only one phase is present. (True/False)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Tell difference between laminar and turbulent flow.