

- Q.23 Explain laminar flow.
 - Q.24 Tell about ideal gas law.
 - Q.25 Explain bulk density.
 - Q.26 Discuss Stationary screens.
 - Q.27 Explain system and surrounding.
 - Q.28 Discuss Sedimentation.
 - Q.29 Explain crystallization in detail.
 - Q.30 Classify agitation equipment,
 - Q.31 Discuss Mass transfer in heterogeneous system.
 - Q.32 Differentiate between humidification and dehumidification.
 - Q.33 Explain internal energy.
 - Q.34 Discuss Heterogeneous system.
 - Q.35 Explain Enthalpy.

SECTION-D

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

- Q.36 Explain modes of heat transfer in detail with the help of examples.
 - Q.37 Describe the function and operation of rotary dryier with the help of neat diagram.
 - Q.38 Explain working principle and function of ball mill.

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3rd Sem / Ceramic

Subject:- Ceramic Industrial Operations / Unit Op. in Ceramic

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 What is a type of crusher?

 - a) Jaw crusher
 - b) Dodge crusher
 - c) Gyratory crusher
 - d) all of these

Q.2 Which is the unit of density?

 - a) kg/m/cc
 - b) kg/m²
 - c) kg/m³
 - d) kg/m

Q.3 SI unit of temperature is _____.

 - a) V
 - b) k
 - c) S
 - d) P

Q.4 Which of these is industrial screening equipment?

 - a) grizzles
 - b) oven
 - c) mixer
 - d) none

Q.5 Which of these is property of fluids?

 - a) Viscosity
 - b) Water
 - c) sand
 - d) Tree

Q6 Which is a type of drying equipment?

- a) blunger
- b) mixer
- c) rotary drier
- d) none

Q7 Which is a type of modes of heat transmission or transfer?

- a) convection
- b) confection
- c) Conection
- d) none

Q8 Which is a type of agitators?

- a) air compressor
- b) Circulation pump system
- c) blunger
- d) none

Q9 Which is example of Portable power drive machine for handling of solids?

- a) Belt conveyor
- b) Electric battery trucks
- c) Screw conveyor
- d) Flight conveyors

Q10 _____ is type of mixer which typically used to blend multiple dry components until they are homogenous.

- a) Dry mixer
- b) Wet mixer
- c) Dryer
- d) None

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Air compressor is example of open system. (T/F)

Q.12 Drying involves process of removal of _____ from product. (Water / coal)

Q.13 Crystallization is separation of solid crystalline phase from a liquid phase by cooling, evaporation or both. (T/F)

Q.14 In laminar flow the fluid layer moves in _____.

Q.15 Unit of specific weight is _____.

Q.16 Formula for calculation of pressure is _____.

Q.17 Example of crushing equipment is _____.

Q.18 Screw conveyor consists of an endless helicoids screw fitted to a shaft. (T/F)

Q.19 Fine size reduction usually been termed fine grinding. (T/F)

Q.20 _____ refers to the ease with which a substance may be broken by impact.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain sedimentation.

Q.22 Explain crushing rolls.