

- Q.32 Explain equation of state.
Q.33 Classify batch drier.
Q.34 Explain thermodynamics

SECTION-D

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

- Q.35 Differentiate between homogeneous system and heterogeneous system.
 - Q.36 Describe the function and operation of Jaw crusher with the help of neat diagram.
 - Q.37 Explain different type of properties of fluids in detail.
 - Q.38 Describe handling of solids in ceramic industries in detail.

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3rd Sem.

Branch : Ceramic

Sub: Ceramic Industrial Operations / Unit Op. In Ceramic

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

- Q.1 Pressure of a fluid is the _____ of the fluid.

 - Force per unit volume
 - Force per unit temp
 - Force per unit area
 - Force per unit urea

Q.2 Which is the unit of viscosity?

 - Poise
 - Noise
 - Coise
 - Toise

Q.3 Which of these is not a property of fluids?

 - Viscosity
 - Density
 - Pressure
 - Brittleness

Q.4 Screening means _____.

 - Mixing
 - Firing
 - Drying
 - Size separation

Q.5 Coarse size reduction machines handle the solid of sizes from _____.

 - 1 to 2 inch
 - 13 to 14 inch
 - 3 to 4 inch
 - 8 to 10 inch

- Q.6 Fine size reduction usually been termed as _____.
 a) Fine grinding b) Coarse grinding
 c) Medium grinding d) None
- Q.7 Which is not a type of modes of heat transmission or transfer?
 a) Convection b) Radiation
 c) Conduction d) Confection
- Q.8 Which is example of Permanent installation for handling of solids?
 a) Belt conveyor b) Electric battery trucks
 c) Tractors d) Trailers
- Q.9 _____ is the operation in which a heterogeneous mixture of a fluid and particles of solid are separated by a filter medium which permit the flow of fluid but retains the particles of solid.
 a) Filtration b) Alternation
 c) Addition d) Suspension
- Q.10 _____ is removal of relatively small amount of water from relatively large amounts of solids.
 a) Mixing b) Drying
 c) Crushing d) Suspension

SECTION-B

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

- Q.11 Tunnel drier is a type of _____.
 Q.12 Conduction is a modes of ____ transfer.
 Q.13 Air compressor is example of closed system. (T/F)

- Q.14 Formula for calculation of pressure is _____.
 Q.15 Unit of pressure is _____.
 Q.16 Specific gravity is unitless quantity. (True/False)
 Q.17 In turbulent flow the fluid layer moves in _____.
 Q.18 Example of grinding equipment is _____.
 Q.19 Chain conveyors utilize a powered continuous chain arrangement, carrying a series of single pendants. (True/False)
 Q.20 A spray dryer is a drying machine used to process solution, suspension or material in a slurry state. (True/False)

SECTION-C

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

- Q.21 Explain system.
 Q.22 Explain apparent density.
 Q.23 Discuss Dodge crusher.
 Q.24 Classify mixing.
 Q.25 Explain spray drier.
 Q.26 Discuss vibrating screen.
 Q.27 Explain Turbulent flow.
 Q.28 Explain Fourier's law.
 Q.29 Differentiate between Conduction and Convection.
 Q.30 Discuss vibrating screen.
 Q.31 Explain homogeneous system.