

- 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 dryer with the help of neat diagram.
 Q.38 Explain working principle and function of ball mill.

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Roll No.

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) grizzlies b) oven
 c) mixer d) none
- Q.5 Which of these is property of fluids?
 a) Viscosity b) Water
 c) sand d) Tree

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- Q6 Which is a type of drying equipment?
- a) blunger b) mixer
c) rotary drier d) none
- Q.7 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
- Q.9 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
- Q.10 _____ 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

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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.

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