Q.23 Discuss dry mixing.

Q.24 Classify conveyor.

Q.25 Explain enthalpy.

Q.26 Discuss open system

Q.27 Classify system.

Q.28 Explain equation of state.

Q.29 Differentiate between Conduction and Convection.

Q.30 Discuss vibrating screen.

Q.31 Explain homogeneous system.

Q.32 Explain shelf drier.

Q.33 Explain hammer mill.

Q.34 Explain try dryer.

Q.35 Differentiate between homogeneous system and heterogeneous system.

SECTION-D

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

Q.36 Describe handling of solids in ceramic industries in detail.

Q.37 Explain different type of properties of fluids in detail.

Q.38 Describe the function and operation of ball mill with the help of neat diagram.

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Subject:- Ceramics Industrial Operations

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which of these is not a property of fluids?

a) Viscosity b) Density
c) Pressure d) Tree

Q.2 Which is the unit of viscosity?

a) Poise b) Noise
c) Coise d) Toise

Q.3 Pressure of a fluid is the_____of the fluid.

a) Force per unit volume
b) Force per unit temp
c) Force per unit area
d) Force per unit urea

Q.4 Screening means_____.

a) Mixing b) Firing
c) Drying d) Size separation

Q.5 Coarse size reduction machines handle the solid of

sizes from_____

a) 1 to 2 inch b) 13 to 14 inch

c) 3 to 4 inch d) 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 installations 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 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) Alteration

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 _____is a type of dryer.

Q.12 _____is a modes of heat 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. (T/F)

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. (T/F)

Q.20 A spray dryer is drying machine used to process solution, suspension or material in a slurry state. (T/F)

SECTION-C

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

Q.21 Explain brittleness.

Q.22 Explain leminar flow.