Q.23 Explain critical speed of ball mill.
Q.24 Discuss hardness and brittleness.
Q.25 Explain working of jaw crusher.
Q.26 Differentiate closed and open system.
Q.27 List fine reduction equipments.
Q.28 Explain homogeneous and heterogeneous system.
Q.29 Explain working of rotary drum filters.
Q.30 Describe working of spray drier.
Q.31 Explain the term system and surroundings.
Q.32 Discuss applications of Bernoulli's equation.
Q.33 Explain principals of drying.
Q.34 Discuss the term internal energy.
Q.35 Explain stages of size reduction.

SECTION-D

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

Q.36 Define the term drying. Explain working of spray drier.
Q.37 Explain different types of conveyors used transfer raw materials.
Q.38 Discuss construction and working 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 Which is not a type of modes of heat transmission or transfer?
a) convection b) radiation
c) conduction d) confection

Q.2 _____ 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) Alteration
c) Addition d) Suspension

Q.3 Which of these is industrial screening equipment?
a) Grizzles b) Oven
c) Mixer d) none

Q.4 Which is example of portable power drive machine for handling of solids?
a) Belt conveyor b) Electric battery trucks
c) Screw conveyor d) Flight

Q.5 _____ 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

Q.6 Heat transfer in liquids takes place by_____ mode.

a) Conduction b) Convection
c) Radiation d) All of these

Q.7 The purpose of size reduction is to _____

a) break big size to smaller size
b) make the material of desired size
c) make the material of desired size range
d) All of these

Q.8 Which of the following is true for turbulent flow

a) Fluid layers move in straight lines.
b) Fluid layers do not move in straight lines.
c) Both A & B
d) None of these

Q.9 At critical speed of ball mill

a) Milling time is very low
b) Milling time is very high
c) No milling take place
d) Ball mill breaks

Q.10 _____ can be used to remove solids from gases

a) Electrostatic precipitator
b) Cyclone
c) Dust collectors
d) All of above

SECTION-B

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

Q.11 Dry mixer can be used to mix two slips.(True/False)

Q.12 Specific volume is the volume occupied by unit_____.

Q.13 Conveyors can be used to dry the materials. (True/False)

Q.14 Rod mill is one type of crushing equipment. (True/False)

Q.15 The cgs unit of viscosity is_____. (Poise /Centipoise)

Q.16 In solids heat transfer takes place by_____.

Q.17 Screw conveyor an example of portable power driven machine. (True/False)

Q.18 Ideal gas equation is_____.

Q.19 The system in which only heat exchange takes place is called_____.

Q.20 In homogeneous system the composition in uniform throughout the system. (True/False)

SECTION-C

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

Q.21 Differentiate laminar and turbulent flow.

Q.22 Explain working of vibrating screens.