

- Q.22 Explain viscosity.
- Q.23 Discuss sedimentation
- Q.24 Classify drying.
- Q.25 Explain Fourier's law.
- Q.26 Discuss closed system.
- Q.27 Explain ideal gas law.
- Q.28 Discuss internal energy.
- Q.29 Explain filtration.
- Q.30 Classify portable power driven machine.
- Q.31 Discuss concept of Bernoulli's equation.
- Q.32 Differentiate between laminar and turbulent flow.
- Q.33 Explain belt conveyor.
- Q.34 Discuss paddle stirrer.
- Q.35 Explain agitation.

#### SECTION-D

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

- Q.36 Describe the function and operation of jaw crusher with the help of neat diagram.
- Q.37 Explain modes of heat transfer in detail.
- Q.38 Explain drying equipments. Explain any one.

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Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Mass per unit volume of a fluid is known as \_\_\_\_\_.  
a) viscosity b) capacity  
c) plasticity d) density
- Q.2 Which is the unit of temperature?  
a) K b) T  
c) L d) M
- Q.3 SI unit of pressure is \_\_\_\_\_.  
a)  $\text{Nm}^2$  b) Nm  
c)  $\text{N/m}^2$  d) N/m
- Q.4 \_\_\_\_\_ is type of mixer.  
a) kiln b) Wet mixer  
c) Dryer d) none

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- Q.5 Which is a type of grinder?
- a) ball mill                      b) Dodge crusher  
c) Gyratory crusher      d) mixer
- Q.6 Which is not a type of drying equipment ?
- a) dry oven                      b) mixer  
c) rotary drier                  d) humid dryer
- Q.7 \_\_\_\_\_ is a type of modes of heat transfer?
- a) drying                          b) confection  
c) correction                      d) convection
- Q.8 Which is a type of mixer?
- a) dry mixer                      b) screw conveyor  
c) conveyor                      d) chain conveyor
- Q.9 Which is example of crushers?
- a) mixer                          b) ball mill  
c) gyratory crusher      d) pan mill
- Q.10 Which of these is industrial crushing equipment?
- a) grizzlies                      b) jaw crusher  
c) mixer                          d) none

## SECTION-B

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

- Q.11 Particle size can be determined by ball mill. (T/F)
- Q.12 Paddle stirrer can be used to mix two solid materials. (T/F)
- Q.13 In homogeneous system the composition is uniform throughout the system. (T/F)
- Q.14 Drying involves process of removal of water from product. (T/F)
- Q.15 Unit of viscosity is \_\_\_\_\_.
- Q.16 In turbulent flow the fluid layer moves in \_\_\_\_\_.
- Q.17 Example of grinding equipment is \_\_\_\_\_.
- Q.18 In liquid heat transfer takes place by \_\_\_\_\_.
- Q.19 The system in which there is exchange of heat and mass is called as \_\_\_\_\_.
- Q.20 Rotary drum filters can be used to separate solids from liquids. (T/F)

## SECTION-C

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

- Q.21 Explain brittleness.