

- 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 drive
  - Q.31 Discuss concept of Bernoulli's principle.
  - 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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# **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 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) Nm<sup>2</sup>                  b) Nm

c) N/m<sup>2</sup>                  d) N/m

Q.4 \_\_\_\_\_ is type of mixer.

a) kiln                  b) Wet mixer

c) Dryer                  d) none

- 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.