

**3rd Sem / Branch : Ceramic**  
**Sub.: Ceramic Machinery**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which of the following is used for primary crushing
- a) Jaw crusher                      b) Ball mill
  - c) Conical mill                      d) Non of these
- Q.2 Filter press is used to remove\_\_\_\_\_ from slip.
- a) Soil material                      b) Water
  - c) Iron particles                      d) All of the above
- Q.3 Which of the kiln is continuous type kiln
- a) Tunnel Kiln                      b) Shuttle kiln
  - c) Downdraught Kiln                      d) Up-draught kiln
- Q.4 Which of the this is permanent installation for material conveying
- a) Bucket elevator                      b) Chain conveyor
  - c) Belt conveyor                      d) All of these

- Q.5 Diaphragm pump is used to
- a) Lift raw material      b) Lift slurry
- c) Lift crushed powder   d) Lift alumina powder
- Q.6 \_\_\_\_\_ is shaping equipment
- a) Press                      b) Jigger
- c) Potter's wheel          d) All of above

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (6x1=6)

- Q.7 Sieving is done in \_\_\_ shaker. (Vibrating/Stationary)
- Q.8 Agitator is used to keep slip in \_\_\_\_\_ (Suspension/Settling)
- Q.9 \_\_\_\_\_ is used to determine moisture content. (Infrared moisture balance/Kiln)
- Q.10 Magnetic separator is used to remove \_\_\_\_\_ (Iron particles/ Alumina)
- Q.11 Drying is done in \_\_\_\_\_ (Tunnel drier/Extruder)
- Q.12 Slurry is lifted by \_\_\_\_\_ pump. (Slurry/ Bucket elevator)

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 List different type of crushing machines and explain any one.
- Q.14 Explain working of magnetic separation.
- Q.15 Describe working of pug mill.
- Q.16 Write objective of agitation.
- Q.17 Explain working of bucket elevator.
- Q.18 Describe working of tube mill.
- Q.19 Explain working of belt and screw conveyors.
- Q.20 Describe working of AutoClave machine.
- Q.21 Explain Le-chatlier apparatus.
- Q.22 List different type of driers and explain any one.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain in detail working of friction screw press machine with a neat diagram.
- Q.24 Explain in detail construction and working of filter press.
- Q.25 Explain in detail construction of tunnel kiln.