- Q.24 Explain in brief tunnel drier.
- Q.25 Explain effect of heat on clay.
- Q.26 Discuss terracotta and earthenware body.
- Q.27 Explain sieving process.
- Q.28 Discuss Jolleying and Jiggering process.
- Q.29 List various types of feldspar. Explain its function.
- Q.30 Differentiate Crushing & Grinding.
- Q.31 Explain isostatic pressing.
- Q.32 Explain injection moulding.
- Q.33 Discuss in brief finishing operations.
- Q.34 Explain the process of blunging.
- Q.35 Describe demagnetization process.

# **SECTION-D**

- **Note:**Long answer type questions. Attempt any two questions out of three questions. 2x10=20
- Q.36 Explain construction and working of tunnel kiln.
- Q.37 Explain slip casting method of fabrication with diagram.
- Q.38 List various types of presses. Explain pressing operation with diagram.

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## 4th SEM / Ceramic Engineering Subject : Ceramics whiteware Technology-I

Time : 3 Hrs. M.M. : 100

#### SECTION-A

- Note:Multiple choice questions. All questions are compulsory (10x1=10)
- Q.1 White ware generally have \_\_\_\_\_\_ finish.
  - a) Rough b) Soft
  - c) Smooth d) None of these
- Q.2 Water absorption percentage of earthenware body is
  - a) 4-20 b) 20-30
  - c) 30-40 d) 40-50
- Q.3 Name of ceramic body made by mixing bone ash
  - a) Porcelain b) Bone china
  - c) Red body d) None of these
- Q.4 Which of the following clay have highe plasticity?
  - a) China clay b) Alumina clay
  - c) Ball clay d) Sil
- d) Silica

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- Q.5 Firing of ceramic whiteware product is carried out at
  - a) Kiln b) Oven
  - c) Both a & b d) None of these

### Q.6 The drying rate depends on

- a) Temperature b) Humidity
- c) Flow of air d) All of these
- Q.7 Magnetic separator is used for
  - a) Sieving b) Crushing
  - c) Grinding d) De magnetizing
- Q.8 Name of shaping machine used in whiteware industries
  - a) Jigger & Jolly b) Autoclave
  - c) Vicat's apparatus d) All of these
- Q.9 Pebbles are used in
  - a) Grinding media b) Crushing media
  - c) Sieving media d) All of these
- Q.10 Efficiency of ball mill depends on
  - a) Speed of mill b) Quantity of balls
  - c) Size of balls d) All of these
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# **SECTION-B**

- Note:Objective type questions. All questions are compulsory. 10x1=10
- Q.11 Complete the formula of clay :  $Al_2O_3$  \_\_\_\_2H\_2O
- Q.12 Feldspar is used as flux. (True/False)
- Q.13 In isostatic pressing pressure is applied from two sides. (True/False)
- Q.14 Crack is one type of defect formed during drying. (True/False)
- Q.15 Water absorption of porcelain body is \_\_\_\_\_. (10 to 20\%, 0 to 0.5\%)
- Q.16 The formula alumina is \_\_\_\_\_\_.
- Q.17 The formula of Andalusite is \_\_\_\_\_.
- Q.18 Bone ash is mojor constituent of bone china body. (True/False)
- Q.19 Formula of Plaster of Paris is \_\_\_\_\_.
- Q.20 The chemical formula of silica is \_\_\_\_\_.

#### SECTION-C

- **Note:**Short answer type questions. Attempt any twelve questions out of fifteen questions. 12x5=60
- Q.21 Explain factors effecting drying.
- Q.22 List properties and uses of sillimanite.
- Q.23 Name synthetically prepared raw materials. Explain any one.

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