

- Q.23 Discuss glaze making process.  
 Q.24 List five colouring oxides used in glaze and colour imparted by them  
 Q.25 Write purpose of fritting.  
 Q.26 Explain geology of clays  
 Q.27 List properties and uses of sillimanite  
 Q.28 Discuss fluxing action in bodies and glazes  
 Q.29 List properties and uses of ball clay.  
 Q.30 Differentiate raw glaze and fritted glaze.  
 Q.31 Differentiate ball clay and china clay.  
 Q.32 Explain lead and leadless glaze.  
 Q.33 Explain glaze application methods in brief.  
 Q.34 Explain how you will prepare bone ash.  
 Q.35 List glaze application method.

#### **SECTION-D**

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 Define flux. Write fluxing materials used. Explain any one.  
 Q.37 Define the term fritting. Explain frit making process in detail.  
 Q.38 Explain on glaze and under glaze decorations.

No. of Printed Pages : 4      180436/120436/030436  
 Roll No. .... /0431

#### **3rd Sem / Ceramic** **Subject:- Ceramic Raw Materials**

Time : 3Hrs.      M.M. : 100

#### **SECTION-A**

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

- Q.1 Example of Plastic raw materials is-  
 a) Clay                          b) Feldspar  
 c) Silica Sand                d) Quartz  
 Q.2 Quartz and feldspar are example of \_\_\_\_\_ material.  
 a) Plastic                      b) Non plastic  
 c) Both A and B              d) None of these  
 Q.3 Bones are calcined at \_\_\_\_\_ °C to make bone ash.  
 a) 100                         b) 200  
 c) 500                        d) 1000  
 Q.4 Frit making process involves \_\_\_\_\_  
 a) Raw material mixing  
 b) Smelting  
 c) Quenching  
 d) All of these

- Q.5 \_\_\_\_\_ is a defect glaze in ceramic ware-
- Dunting
  - Crazing
  - Cracking
  - All of these
- Q.6 Enamel is coated on the surface of \_\_\_\_\_
- Metal
  - plastic
  - wood
  - Ceramics
- Q.7 The feldspar in body \_\_\_\_\_ the maturing / firing temperature
- Lowers
  - Increases
  - Does not effect
  - Some time decreases some time increases
- Q.8 Which of the following is type of glaze?
- Transparent glaze
  - Matt glaze
  - Opaque glaze
  - All of these
- Q.9 Clay is \_\_\_\_\_ raw material.
- Non plastic
  - Plastic
  - Non clay plastic
  - None of these
- Q.10 The Quartz is \_\_\_\_\_ in nature.
- Plastic
  - Non plastic
  - Both (a) & (b)
  - None of these

## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Steatite mineral is very \_\_\_\_\_. (Hard/soft)
- Q.12 The formula of Kyanite is \_\_\_\_\_. ( $\text{Al}_2\text{O}_3 \cdot \text{SiO}_2$  /  $\text{Al}_2\text{O}_3 \cdot 4\text{SiO}_2$ )
- Q.13 \_\_\_\_\_ is coloring oxide used in frits. (Chromium oxide, Sand)
- Q.14 On glaze is one type of decorations. (True/False)
- Q.15 Ball clay and china clay are \_\_\_\_\_ raw materials. (Plastic / Non Plastic)
- Q.16 Soda feldspar is used as \_\_\_\_\_ to reduce maturing temperature of glaze. (Flux / Deflocculant)
- Q.17 \_\_\_\_\_ is one of the raw materials of silica. (Quartz / feldspar)
- Q.18 Glaze is thin layer of \_\_\_\_\_ fused on surface of body. (Glass / Metal)
- Q.19 In-glaze is one type of decorations. (True/False)
- Q.20 Ball clay is more plastic than china clay. (True / False)

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Why ball clay is more plastic than china clay?
- Q.22 Explain ground coat enameling