

- Q.22 Differentiate lead glaze and leadless glaze.
- Q.23 Name different types of clays. Tell its role in glaze making.
- Q.24 List similarities between glaze and glass.
- Q.25 Name different types of fluxes. Explain role of feldspar in glaze.
- Q.26 List placing precautions of glazed ware before firing.
- Q.27 How raw materials for glazes are selected? Explain.
- Q.28 Explain methods of application of glaze.
- Q.29 Define frit. Write its purpose.
- Q.30 Define drying. Write factors affecting drying.
- Q.31 What are pin holes? Write its causes and remedies
- Q.32 List type of decorations. Explain any one.
- Q.33 Explain preparation of glaze.
- Q.34 Explain frit making process.
- Q.35 List different defects in enamels. Explain any one.

#### **SECTION-D**

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

- Q.36 Explain application methods of enamel and glazes.
- Q.37 Enlist different glaze defects. Explain causes and remedies of crazing and peeling.
- Q.38 Explain base metal preparation for enamel application.

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**4th Sem. / Ceramic**  
**Subject : Ceramic Coating Technology**

Time : 3 Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 The purpose of coating is improve \_\_\_\_\_  
 a) Chemical inertness      b) High temp. stability  
 c) Hardness                d) All of the above
- Q.2 Purpose of glazing is  
 a) To make them impervious to gases and water  
 b) To make them mechanically strong  
 c) To make the wares more chemically inert  
 d) All of the above
- Q.3 Nepheline Syenite contain  
 a) Soda feldspar  
 b) Potash feldspar  
 c) Potash feldspar  
 d) Both Soda and potash Feldspar
- Q.4 Which of the following is opacifier ?  
 a) Tin oxide                b) Zirconia  
 c) Zircon sand             d) All of the above

- Q.5 Role of alumina in Glaze is to \_\_\_\_\_  
 a) Increase viscosity      b) Improve opacity  
 c) Reduce TSR            d) All of the above
- Q.6 Which of the following is NOT Ceramic coating?  
 a) Rubber coating        b) Glaze  
 c) Porcelain Enamels    d) Glass enamels
- Q.7 Identify the no-plastic raw material.  
 a) Quartz                  b) Talc  
 c) Pyrophyllite            d) China clay
- Q.8 First step is in glaze preparation is \_\_\_\_\_  
 a) Deciding chemical formula  
 b) Calculation of Batch composition  
 c) Mixing  
 d) None of the above
- Q.9 Purpose of fritting is \_\_\_\_\_  
 a) To convert soluble material into in soluble  
 b) To lower the maturing temperature of glaze  
 c) Both A & B  
 d) None of the above
- Q.10 In case of crazing on glaze surface \_\_\_\_\_ are formed  
 a) Cracks                  b) Patches  
 c) Crystals                d) Glass enamels

### SECTION-B

- Note:** Objective type questions. All questions are compulsory (10x1=10)
- Q.11 Glaze and glass are similar in Physical properties. (True/False)
- Q.12 Fluxes \_\_\_\_\_ the maturing temperature of ceramic body. (Reduce, Increase)
- Q.13 Crazing is found in glazes when coefficient of thermal expansion of glaze is more than that of body. (True/False)
- Q.14 During firing unglazed wares can be kept in contact with each other. However glazed wares must be kept carefully apart. (True/False)
- Q.15 \_\_\_\_\_ is one type of decorations. (On glaze, true glaze)
- Q.16 Crazing and peeling are glaze defect. (True/False)
- Q.17 Stenciling is used to glaze the ware. (True/Flase)
- Q.18 \_\_\_\_\_ is type of enamel. (Transparent enamels/Lead enamel)
- Q.19 Fritting is done to convert soluble material in to insoluble form. (True/False)
- Q.20 In crazing surface cracks are formed. (True/False)

### SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define glaze. Write its purpose.