

B.Des. Semester-V Examination 2014

Specialization in Ceramic & Glass

Materials & Product Technology - I

Paper : CG-V/03

Time : Three Hours

Full Marks : 40

Questions are of value as indicated in the margin.

Answer **any four** questions

1. (a) Define primary clay with examples. 2+2+2+2+2=10
(b) Write the minerological name of china clay.
(c) Explain why the colour of pond clay is black.
(d) Write the chemical formula of Borax.
(e) Define flux.
 2. Write the significance of drying. Write the name of different types of water present in a clay water system. Define shrinkage water. Briefly describe the mechanism of drying. 2+2+2+4=10
 3. State the functions of glazing. Write the differences between gloss and matt glaze. Why fitting is done? 3+4+3=10
 4. Briefly describe Raw and Fritted glaze. 5+5=10
 5. Explain why firing is important for ceramic body. Explain the terms bisquit firing and glost firing. What is crazing and how it can be solve. 3+3+4=10
 6. Write short note on any four : 2½×4=10
 - (a) Earthen-ware
 - (b) Water absorption
 - (c) Flexural strength
 - (d) Raku process
 - (e) Throwing & turning
 - (f) Classification of glaze
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