

Use Separate answer
book for each group

B.Des. Semester-VII Examination 2014

Specialization in Ceramic & Glass

Material & Product Technology-III

Paper : CG-VII/03

Time : Three Hours

Full Marks : 40

Questions are of value as indicated in the margin.

Group - A

Answer **any two** questions.

1. Explain the terms 'Biscuit firing and Glost firing. What are the advantages of these two processes in pottery manufacturing? For bone china firing which ones are more applicable -
High bisque - low glost or low bisque - high glost? 2+6+2=10
2. Discuss the functioning of chamber kiln or Tunnel kiln with proper line diagram. 5+5=10
3. Define glaze. Discuss the functioning of an opacifier in glaze. Write an approximate composition of stoneware glaze. What is frit. 2+4+2+2=10
4. Write short note on **any two** : 2×5=10
 - (a) Difference between wall tile & floor tile.
 - (b) Shuttle kiln
 - (c) Rollar Hearth kiln
 - (d) Parian ware
 - (e) Ceramic fiber

Group - B

Answer **any two** questions.

1. Write the process of kiln casting glass techniques? Write in detail process for making molds for glass kiln casting. 6+4=10
 2. Write different type of glass decoration technique in detail. Write briefly about type of colours for glass decoration. 6+4=10
 3. Write detail process of glass blowing. Write about the blowing tools and equipment. 5+5=10
 4. Write on any four (draw diagram if required) 2.5×4=10
 - (i) Continuous Melting Furnace
 - (ii) Pete-de-Vera
 - (iii) Day Tank Furnace
 - (iv) Sand Blasting
 - (v) Glass Polishing
 - (vi) Pot Furnace
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