

Use separate answer
script for each group

Bachelor of Design (B.Des.) Examination, 2018

Semester - VII

Specialization in Ceramic & Glass

Course – CG-VII/03

(Material & Product Technology-III)

Time: 3 Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Group-A (Marks: 20)

Question no. 1 is compulsory and answer any two from the rest

1. Answer **any five**: 5×2=10
 - a) Define residual clay
 - b) What is Grog?
 - c) Define flux.
 - d) Name the furnace is used for fast firing?
 - e) Write the firing temperature of hard porcelain.
 - f) Write the name of the major phases present in porcelain body after firing.
 - g) Is firing ceramics a chemical change?
 - h) How do you make clay waterproof?
2. Briefly describe about floor tile. Write the approximate composition of wall tile. 4+1=5
3. Classify porcelain. Write the differences between Hard and Soft porcelain. 2+3=5
4. Define glaze. Describe about any two glaze defects with remedies. 1+4=5
5. Briefly describe working principle of tunnel kiln with sketch 5
6. Write notes on **any two**: 2½ X2=5
 - a) Down draft kiln.
 - b) Low tension insulator
 - c) Muffle kiln
 - d) Ceramic stain

Group-B (Marks: 20)

Answer any two questions.

1. Write in detail about Glass Decoration processes. 10
2. Write detail about the different types of solid glass casting. Describe detail step wise making for Pate de Verre. 6+4=10
3. Write detail about the type of glass melting furnaces. Along with detail drawing. 4+6=10
4. Write a brief note on **any five**: 2.5×4=10
 - a) Mold making for solid casting
 - b) Lamp Work
 - c) Colour decoration
 - d) Punty and Marver
 - e) Glass aside etching
 - f) Glass Polishing