

Register No.:

390

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. Mention the types of creep.
2. Define compressive Strength.
3. Write the formula for thermal shock resistance.
4. Define Co-efficient of linear thermal expansion.
5. Give Snell's law.
6. What is the result of translucency in Bone china product?
7. Define porosity.
8. What is meant by charging current?
9. Mention the types of magnetism.
10. Draw the diagram of Ten domain structure.

[Turn over.....

PART – B

11. (a) Explain about brittle fracture with neat diagram.

(Or)

(b) Explain about Elastic modulus with constant stress and strain.

12. (a) Explain about low thermal expansion bodies. Also list the effect of temperature difference on firing the body.

(Or)

(b) Discuss the variation of specific heat capacity for different ceramic materials.

13. (a) How will you determine gloss index? Explain.

(Or)

(b) Give the differences between specular reflection and diffused reflection with a neat sketch.

14. (a) Write short notes on permittivity and dielectric loss.

(Or)

(b) Explain about conductors and semi-conductors.

15. (a) Explain the spinel structure and its different types.

(Or)

(b) Explain about ferromagnetic domain and magnetization curve.
