

Register No.:

672

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. What is volume stability?
2. How do you measure specific gravity in ceramics?
3. List the uses of Bauxite.
4. Give any three properties of Andalusite.
5. Write a short note on dead burnt magnesite.
6. What is stabilised dolomite?
7. Give the uses of Zirconia.
8. Name any three synthetic refractories.
9. List the uses of insulating bricks.
10. Give any three properties of ceramic fibre.

[Turn over.....

**PART - B**

11. (a) Explain the classification of Refractories.

(Or)

(b) Write about the following (5+5+4)  
(i) Creep (ii) Abrasion Resistance (iii) Hot modulus of rupture.

12. (a) Explain the composition, properties and uses of Kyanite.

(Or)

(b) How fireclay is manufactured? Explain.

13. (a) Explain the properties, applications of dolomite and forsterite.

(Or)

(b) Explain the properties and applications of Magnesite and Mag chrome.

14. (a) How neutral refractories are manufactured? Give its applications.

(Or)

(b) Explain about magnesite alumino spinel.

15. (a) Give the properties and uses of (i) ceramic fibre (ii) castables.

(Or)

(b) Write short notes on (i) Ramming mass (5) (ii) Felting mass (5)  
(iii) Gunning mass (4).

-----