

Register No.:

948

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. Define Fuel.
2. Give any three examples for gaseous fuels.
3. Define Gross calorific value.
4. What is the flammability limit of combustion?
5. What is convection?
6. List out the types of solid fuel burners.
7. Give the advantages of Hoffmann kiln.
8. What is Muffle kiln?
9. How temperature is assessed by using colour tint?
10. Write about Bullers rings.

[Turn over.....

PART – B

11. (a) Explain the classification of fuels.

(Or)

(b) Explain the refining of petroleum. How it is transported? List its advantages and disadvantages.

12. (a) Discuss the methods of analysis of coal.

(Or)

(b) Write about the following: (i) Net calorific value (5) (ii) High flash point (5) (iii) Limited sulphur (4).

13. (a) Explain the working of bomb calorimeter with neat sketch.

(Or)

(b) Explain the types of burners and their functions.

14. (a) Discuss about semi continuous kiln and continuous kiln.

(Or)

(b) Write notes on (i) clamp kiln (5) (ii) up draught kiln (5) (iii) horizontal kiln (4).

15. (a) Explain about pyrometry and pyroscopes.

(Or)

(b) Explain about Radiation pyrometer and optical pyrometer.
