



SESHASAYEE INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
TRICHY 10
DEPARTMENT OF BASIC ENGINEERING

Term : II	Model Exam	Duration : 3 Hrs
MAY -2020	Course : ENGINEERING CHEMISTRY -II	Max.marks :75

PART-A

I. Answer any Five Questions from the Following. Each question Carries 2 marks (5X2=10)

1. State the term green chemistry.
2. What are solid wastes?
3. Define the term cracking.
4. Give Example for flue gases.
5. What is meant by atomisation?
6. Write the classification of abrasives.
7. Define the term glazing.
8. What are composites?

PART-B

II. Answer any FIVE questions from the following. Each questions carries 3 Marks (5X3=15)

9. Mention the importance of ozone layer.
10. What is meant by Eutrophication?
11. Write about Composition and uses of LPG.
12. Calculate the amount of air required for the complete combustion of 2kg of carbon.
13. Write the applications of powder metallurgy.
14. How lubricants are typed? Give example for each.
15. Give an account on urea formaldehyde resin.
16. Write the Differences between addition and Condensation polymerisation.

PART-C

III. Answer all questions. Answer any two sub divisions in each of the Following questions (5X2X5=50)

17. (a) What are air Pollutants? Explain about their sources and harmful Effects.
(b) Explain two methods of disposal of solid waste.
(c) Write in detail about goals of the Green chemistry.

18. (a) Explain about the Preparation of Producer gas with neat Diagram.
(b) Calculate the Volume of air required for the complete combustion of 1m^3 of a fuel having the following Composition by volume.
C-78% , H-16%, O-1%,S-3% and the remaining ash.
(c) Briefly explain about the Properties of refractories.
19. (a) Describe in details about the extraction of Titanium from its ore.
(b) Writes a note an Solid Lubricants.
(c) Explain about the preparation, properties and uses of Silicon carbide.
20. (a) Explain about the Manufacture of Cement by wet process with neat diagram.
(b) Describe about the Manufacture of white pottery.
(c) Write a short note an Natural adhesives.
21. (a) Write the differences between thermoplastic and thermosetting plastics.
(b) What is meant by compounding of Rubber? List the Components and their functions with example.
(c) Write in detail about the advantages of composites over metals and polymers.

Question paper set by

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