

RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. FIFTH SEMESTER EXAMINATION, MARCH 2022

THIRD YEAR [BATCH 2019-22]

INDUSTRIAL CHEMISTRY (Honours)

Date : 05/03/2022

Time : 11 am – 1 pm

Paper : DSE -2

Full Marks : 50

Answer **any five** questions of the following:

[5×10]

1. What are the petrochemicals and what is the classification of it? Describe the Manufacture of Methanol from Synthesis Gas. [(2+2)+6]
2. What are paints and write the constituents of paints. Describe the process technology of Formaldehyde production. [(2+2)+6]
3. Which process is used for recovery of BTX from reformat? What are pesticides? Differentiate between insecticide and herbicide. Write a short note on Thinners or Diluents. [2+2+3+3]
4. What are drugs? What are analgesic and antipyretic? Give two examples. What is ampicillin used for? List the green pigments, their composition and uses. [1+3+2+4]
5. Name of two polymer of Styrene and mention their uses. Why autopolymerisation of Styrene is explosive? Explain. What is EPS foam? What are the properties of polystyrene? [4+2+2+2]
6. Write short note on Varnishes & Lacquers. Which pigment is used to inhibit corrosion of iron and steel objects? Write the composition of white lead. What are difference between fungicides and pesticides? [5+1+2+2]
7. What are the disadvantages of insecticides? Write the structure & formula of Naphthalene and what is naphthalene commonly used for? Define the following terms with example
 - i) Extenders
 - ii) Plasticizers[2+(2+1)+(2.5+2.5)]
8. Describe the process technology of Isopropanol and Ethylene Glycol production with proper flow sheet. [5+5]

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