GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (Fourth Semester) Examinations, May' 2021
CHPE 403 – INDUSTRIAL CHEMISTRY
(Chemistry)

Time: 2 hrs   Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

PART – A   (2 x 10 = 20)

Q.1. Answer all the questions

   a.   What are petroleum products? Give its composition.
   b.   Explain the step growth mechanism.
   c.   Differentiate between paint and varnishes.
   d.   What is fermentation? Give example.
   e.   Draw the structure of parathion.
   f.   Define adsorption.
   g.   What is conventional operation? Give example.
   h.   What is stoichiometry? Give its role in chemical science.
   i.   Differentiate between oil and fat.
   j.   Write a note on stripping.

PART – B   (6 x 5 = 30 Marks)

Answer *ANY FIVE* questions   Marks

   2.   Briefly explain the commercial production of ethylene.   (6)

   3.   What is polymerization? Explain the mechanism of condensation polymers. (6)

   4.   What is solvent extraction? Give its role in chemical sciences.   (6)

   5.   Write a brief note on manufacture of soap and detergents   (6)

   6.   Discuss in details about role of pesticides in agriculture.   (6)

   7.   Write a note on the manufacture of DDT.   (6)

   8.   Define psychometric operation. Explain their importance in unit operation. (6)

   9.   Briefly explain the role of distillation in industries with types.   (6)

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