

The figures in the margin indicate full marks:

Answer as instructed below:

1. Answer any nine questions From the followings: 1 x 9 = 9
  - a) Why is the cement known as hydraulic cement?
  - b) What is coal tar?
  - c) What are the processes for manufacture of cement?
  - d) What is drying?
  - e) What do you meant by polymerisation?
  - f) What is fat splitting?
  - g) What do you meant by “calorific value of a fuel”?
  - h) Write the composition of Producer gas and water gas?
  - i) Give two examples of organophosphrous insecticides.
  - j) What is enamel or glass enamel?
  - k) What is clay?
  
2. Write short note (any three) 3 x 3 = 9
  - a) Setting of cement
  - b) Antiknock compound
  - c) Hydrogenation of oils
  - d) Octane number
  
3. Answer any five questions from the followings: 5 x 6 = 30
  - a) What do you meant by flash point? What is an Aviation gasoline? What is reforming in petroleum industry? 2+2+2=6

- b) Define paint. Give their main constituents. Discuss the role of each of them.  $1+2+3=6$
- c) Give the theory of Galvanisation. Describe the process of galvanisation.  $3+3=6$
- d) "Iodine value of fat is 120"- What do you mean by it? What is ceramics? What are the nonporous pottery items?  $2+2+2=6$
- e) What do you meant by Portland cement? What are the differences between fats and oils? What is pyrolysis gasoline?  $2+2+2=6$
- f) What is naphtha? What is LPG? What is Bio Gas?  $2+2+2=6$

***[N.B: Write roll number, registration number and put your full signature on each page of your answer script and send readable softcopy(ies) of all relevant pages ( answer script) and the admit card in a single pdf to [chemru2020@gmail.com](mailto:chemru2020@gmail.com) within the scheduled time.]***