(a1) Describe the metastable curve in H2O system.

(a2) How can thermal analysis be employed for determining phase diagram?

(a3) Write a note on scale formation in boilers, scale, and sludge.

(a4) How is permanent hardness of water determined?

(a5) Write a short note on:
   (i) Reverse osmosis
   (ii) Sterilization by chlorine
   (iii) Cathodic protection
   (iv) Cloud point and Pour point
   (v) Additive for lubricants

(6) What is TGA? Describe its principle technique and application.

(7) What are thermosetting resins? Give the preparation, properties and uses of PF and UF resins.

(8) What is DTA? Discuss its principle technique and important applications.

(9) Describe:
   (i) Flame photometry
   (ii) Ultraviolet spectrometry, spectroscopy
   (iii) BUNA-S

(10) Draw and explain the phase diagram of H2O system.
8.113) How is water softened by lime-soda process? Give reaction involved in process.
8.12) Describe stress corrosion cracking.
8.13) Differential aeration corrosion.
8.14) Microbial corrosion.
8.15) Draw and explain phase diagram of Pb-Ag system in detail.
8.16) Define Lambert-Beer's law.
8.17) What are silicones? How are prepared?
8.18) Describe specification value of lubricants.
8.19) What do you understand by galvanization?
8.20) Explain the cloud point.
8.21) Explain biodegradable polymer.
8.22) Why additives are used in lubricants.

Give some examples.
1. What is Management? Discuss it Priciple given by Henry Fayol.

2. "Management is art as well as science," comment on it.

3. What is recruitment & selection? Explain the process of selection.


5. What is Production Planning & Control? Define the process of Production Planning & Control.

6. What is Inventory Control? Explain the method of inventory control.

7. What is Marketing Management? Explain the function & importance of Marketing Management.

8. What is advertisement? Explain the media of advertisement.


10. What are the various sources of finance?
What is Economics concept? how you will define the nature of economics?

Explain the laws of diminishing marginal utility

What is elasticity of demand? How you will measure the elasticity of demand?

What is demand? Explain the laws of demand.

What do you mean by Production? Explain the laws of production.

What do you mean by Cost? Show the relationship of the cost.

Short Note on
- Real Cost
- Money Cost
- Total Cost
- Fixed Cost

Discuss the Perfect Competition assumptions. Also explain the price determination of Perfect Competition.

What is Globalization? Discuss its feature.

Short Note on
(A) VAT (B) GATT (C) WTO (D) Privatization

Define the law of diminishing marginal utility.

What is Economics? Explain the nature of Economics.