

- N.B. (1) Question No. 1 is compulsory.
 (2) Answer any three questions from the remaining.
 (3) All questions carry equal marks.

Atomic weight :—

Ca = 40	Mg = 24
H = 1	Cl = 35.5
C = 12	Na = 23
O = 16	

1. Solve any five :—

15

- Differentiate between BOD and COD.
- What are natural rubbers ? What are their drawbacks ?
- Define grease. Under which situation it is used as a lubricant.
- Define phase, component and degree of freedom.
- Write composition of portland cement.
- What are plasticizer and give its functions ?
- What is the total hardness of sample of water which has the following impurities in mg/l.

$\text{Ca}(\text{HCO}_3)_2$ = 162	CaCl_2 = 22.2
MgCl_2 = 95	NaCl = 20

- 0.5g of CaCO_3 was dissolved in dilute HCl and diluted to 500 ml. 50 ml of this solution required 45 ml of EDTA solution for titration. 50ml of hard water sample required 15 ml of EDTA solution for titration. 50 ml of same water sample on boiling, filtering requires 10 ml of EDTA solution. Calculate the temporary permanent and total hardness in ppm. 6
 - Draw and explain the phase diagram of ice-water-water vapour system. 5
 - Explain CVD method for preparation of carbonnanotubes. 4
- What are solid lubricants explain with two examples. 6
 - Explain fabrication of plastic with example of injection molding. 5
 - Give limitations of phase rule. 4
- Write preparation, properties and uses of following polymers :— 6
 - Buna S
 - Kevlar
 - Explain demineralization of water by ion exchange method. 5
 - 2.5 g of vegetable oil was mixed with 50 ml of KOH solution and heated for 1 hour. The mixture required 26.4 ml of 0.4 N HCl. The blank titration reading was 49.0 ml. Find the saponification value of oil. 4
- Write preparation properties and uses of — 6
 - Dolomite bricks
 - Silicon carbide
 - Explain effect of heat on polymers and factors affecting it. 5
 - A zeolite softener was completely exhausted and was regenerated by passing 150 lit of NaCl solution, containing 50 g/litre of sodium chloride. How many litres of water sample of hardness 450 ppm can be softened by this zeolite container. 4
- With the help of chemical equations explain the principle of lime soda process. 6
 - Write short notes on :— 5
 - Conducting polymers
 - Polymers in medicine and surgery.
 - Explain the following properties and discuss its significance 4

Viscosity and Viscosity index.

Madinpoly Applied Science 2013 First Semester Question Paper

Peipei Pang



Madinpoly Applied Science 2013 First Semester Question Paper:

This book delves into Madinpoly Applied Science 2013 Fist Semester Question Paper. Madinpoly Applied Science 2013 Fist Semester Question Paper is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Madinpoly Applied Science 2013 Fist Semester Question Paper, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Madinpoly Applied Science 2013 Fist Semester Question Paper
 - Chapter 2: Essential Elements of Madinpoly Applied Science 2013 Fist Semester Question Paper
 - Chapter 3: Madinpoly Applied Science 2013 Fist Semester Question Paper in Everyday Life
 - Chapter 4: Madinpoly Applied Science 2013 Fist Semester Question Paper in Specific Contexts
 - Chapter 5: Conclusion
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