Class 12 ,Semester 2

Subject: Chemistry Sample Paper

Time: 1.5 hours M.M: 35

Part- A: one mark questions

1. How many number of atoms per unit cell are present in bcc structure?	1
2. Which out of the two is more basic Ammonia or aniline?	1
3. Write chemical name of vitamin D.	1
4. Give any one example of a biopolymer.	1
5. Which type of drug is chloroquine	1

Part- B: Two marks questions

6. Give reason why trichloro acetic acid has more acidic character than monochloro acetic acid

2

- 7. A solid AB has NaCl structure. If the radius of cation (A⁺) is 170 pm, calculate the maximum possible value of the radius of anion (B⁻) 2
- 8. Discuss oxidation of secondary alcohols 2
- 9. Phenol has higher boiling point than toluene. Why?

or

What is williamson's synthesis. Give an example.	1+1=2
10. Discuss briefly Hell Volhard Zelinsky reaction.	2
11. Convert propanone to propene	2
12. List any two biological functions of Carbohydrates.	2
13. What are tranquilizers ? Give an example.	1+1=2

Part- C: Three marks questions

14. An element having density 11.2 g $\rm cm^{-3}$ forms a fcc lattice with edge Calculate the atomic mass of the element .	e length of 4X10 ⁻⁸ cm. 3	
15. Describe Hinsberg's test to distinguish between primary , secondary and tertiary amines		
	3	
or		
Write down : (i) Carbylamine reaction	1+1+1=3	
(ii) Diazotisation reaction		
(iii) Mendius reduction		
16. Write down polymerization reactions for the following Polymers:		
(i) Teflon (ii) Nylon- 66 (iii) Buna- s	1+1+1=3	
17.(a) Write down following reactions		
(i) Finkelstein reaction		
(ii) Wurts fittig reaction		
(iii) Sandmeyer reaction	1+1+1=3	
(b) The para isomer of dichlorobenzene has higher melting point than isomers. Why ?	the ortho and meta	
or		
(a) Why aryl halides are less reactive than alkyl halides?	3	
(b) Give any two differences between SN¹ and SN² reactions.	2	