

AIMSTUTORIAL.IN
Model guess paper-1 - March - 2019
INTERMEDIATE II -YEAR telengana
CHEMISTRY - II

Time: 3hours

Max.Marks:60

INSTRUCTIONS:

1. Q.Nos: 1 - 10 are Very Short Answer Type. Each question carries 2 marks.
2. Q. Nos: 11 - 18 are Short Answer Type. Each question carries 4 marks.
3. Q.Nos: 19 - 21 are Long Answer Type. Each question carries 7 marks.

I. Answer ALL questions in 2 or 3 lines each. [10 x 2 = 20]

1. Give the composition of the following alloys. (a) Brass, (b) Bronze.
2. Why is dioxygen a gas but sulphur a solid.
3. Explain the reaction of the following with water. (a) XeF_2 , (b) XeF_6 .
4. Give two examples for zero order reaction.
5. Write the names and structures of monomers present in the polymers. (a) Buna - S, (b) Dacron.
6. A solution of glucose on water labelled as 20 w/w. What would be the molarity and molality of the solution.
7. What is Biodegradable polymer. Give one example of bio degradable polyester. Give its use.
8. What are antibiotics? Give an example.
9. What are narcotics & non narcotic analgesics.
10. Aqueous Cu^{+2} ions are blue in colour where as Zn^{+2} ions are colourless. Why?

II. Answer any SIX of the following questions in about 75 words each. [6 x 4 = 24]

11. Derive Bragg's equation?
12. a) What are emulsions.
b) Name the dispersion medium & dispersed phase present in the colloidal system. (i) Milk, (ii) Smoke.
13. Explain the purification of sulphide ore by froth floatation method.
14. Write the structures of the following organic halides.
i) 1 - Bromochlorobenzene ii) 2 - chloro - 1 - phenylbutane
iii) p - bromochlorobenzene iv) 4 - t - Butyl - 3 - iodoheptane.
15. Explain the acidic nature of phenols & compare it with that of alcohol.
16. What are Hormones? Give the functions of 2 different hormones present in the body.
17. Explain Werner's theory of coordinate compounds with 2 suitable examples.
18. State Rault's law vapour pressure of water at 293K is 17.535mm Hg. Calculate the vapour pressure of the solution at 293K when 25g of glucose is dissolved in 450g of water.

III. Answer any TWO of the following questions in about 300 words each. [2 x 8 = 16]

19. a) How nitric acid manufactured by ostwald's process.
b) Explain reactions of ozone with
i) C_2H_4 , ii) KI, iii) Hg, iv) PbS
20. a) State Kohlrausch's law of independent migration of ions and write its applications.
b) Give the salient features of the collision theory of reaction rates of bimolecules reactions.
21. Explain the following with one example for each.
a) Cross aldol reaction b) Hell - volhard - Zelinsky reaction
c) Gatterman reaction d) Carbylamine reaction.

*** **All the Best** ***