

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 8386

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Roll No.....

Unique Paper Code : 217154

Name of the Paper : CHCP-101 CHEMISTRY LAB

Name of the Course : B.Sc. (Hons.) / Physics / Part I
(Admissions of 2010 and onwards)

Semester : I

Duration : 1 Hour

Maximum Marks : 20

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **All** questions.
3. **All** questions carry equal marks.

1. How is Benedict solution prepared ?
2. What is the effect of dilution on surface tension of detergent solution ?
3. What is the reducing agent used in the reduction of Cu(II) to Cu(I) in gravimetric analysis of cuprousthiocyanate ?
4. What is saponification ? Write the chemical reaction.
5. Define the order of reaction and write the unit of rate constant of 1st order reaction ?
6. Define R_f Value.
7. What is the colour of Phenolphthalein in acidic medium ? Write the corresponding structure of Phenolphthalein.

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8. Define relative and absolute viscosity.
9. Why is the excess of precipitating agent avoided in the gravimetric estimation of copper as thiocyanate ?
10. Write the various steps for the preparation of p-bromoaniline from acetanilide.
11. What is conductometric titration ? Draw the curve for titration of weak acid(CH_3COOH) and strong Base(NaOH).
12. What is structure of the complex tetramminecopper (II) sulphate ?
13. Why drop number method gives more accurate result as compared to drop weight method by Stalagmometer ?
14. What is oxidation state of Mn in MnPO_4 ? Is MnPO_4 stable ?
15. What product is obtained when salicylic acid is treated with Acetyl Chloride in Pyridine ? Write the chemical reaction involved and the structure of the product obtained.
16. Write chemical reaction when $\text{K}_2\text{Cr}_2\text{O}_7$ reacts with Mohr's salt in acidic medium.
17. What is the visualizing reagent used for the detection of Cu^{2+} and Cd^{2+} ions in paper chromatography ?
18. How is Caffeine isolated from tea leaves ?
19. Write SI unit of surface tension and viscosity.
20. What is the effect of nitro group in the electrophilic aromatic substitution of nitrobenzene ?