

VIVEKANANDA COLLEGE, ALIPURDUAR

B.sc Chemistry Practical Examination, 2021

2nd Semester

Exam mode- online

Time – 2 hours.

Total Marks – 20

Marks Distribution:

	Marks	
Laboratory Notebook(LNB)	5	Index Page and at least four pages
On-line questions	3×5=15	3 questions out of 5
Total	20	

- The Students will answer 3 questions out of 5.
- The Students will send the scanned (pdf) copy of the LNB, having at least 4 pages ,along with the scanned pdf copy of the index page.
- The students will also send the scanned pdf copy of their answer scripts with Roll No, Signatures to the email ID's annweshadas92@gmail.com
Skpaul.msc.chem.2018@gmail.com
- Students must send this before 25/06/2021

Physical chemistry

- 1. Why enthalpy change accompanying any strong acid and any strong base neutralisation has same value.**
- 2. What are Buffers ? Explain the buffering action of weak salt and weak base combination with detailed mechanism.**
- 3. Explain the principle for determination of heat-capacity of calorimeter for different volumes.**

Organic Chemistry

- 4. Suppose you are given ortho and meta phenylene diamines .How do you detect them.**
- 5. How to establish purity of any sample after systematic qualitative organic analysis.**

Question made by Annwasha Das

Department of Chemistry

Date- 17/06/2021

VIVEKANANDA COLLEGE, ALIPURDUAR

B.sc Chemistry Practical Examination, 2021

4th Semester

Exam mode- online

Time – 2 hours.

Total Marks – 20

Marks Distribution:

	Marks	
Laboratory Notebook(LNB)	5	Index Page and at least four pages
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Skpaul.msc.chem.2018@gmail.com
- Students must send this before 26/06/2021

Physical chemistry

1. Briefly describe the principle used for the determination of the surface Tension of a liquid using Stalagmometer.
2. How do we study the variation of viscosity of an aqueous solution with the concentration of solute.
3. Give the mechanism for the acidic hydrolysis of ethyl acetate with HCl.

Inorganic chemistry

4. Briefly explain the estimation process of the given anions :(2.5×2= 5)
 - (i) Cl^-
 - (ii) SO_4^{2-}
5. Give the reactions involved in the detection of Cd^{2+} .

Question made by Annwasha Das and Sandip Kr.Paul

Department of Chemistry

Date- 18/06/2021

Send the mail in sciencevc@gmail.com