

VIVEKANANDA COLLEGE,ALIPURDUAR

B.Sc, 2nd Semester Exam (D.Sc.)

Question type- Assignment

Internal evaluation

Subject – Chemistry

Marks – 10

- Students are to write any two questions of the four questions given below, taking only one question from each part.
- Each question carries 5 marks each.
- Answers to be written in A4 – sized papers with proper academic specification, name, Roll no , Reg no, Semester etc. Scanned and emailed to annweshadas92@gmail.com and sciencevcapd@gmail.com

PHYSICAL PART

1. State first Law of Thermodynamics. Give its mathematical equation.
2. What is La- Chateliers principle? How does it predicts the rate of the exothermic and endothermic reactions for the :
 - (a) Addition of heat to the system.
 - (b) Removal of heat from the system.

ORGANIC PART

3. What are carbocations? Give some reactions where they are formed as intermediates.
4. What is Oppeneaur Oxidation .

VIVEKANANDA COLLEGE,ALIPURDUAR

B.Sc, 6th Semester Exam (D.Sc.)

Question type- Assignment

Internal evaluation

Subject – Chemistry

Marks – 10

- Students are to write any two questions of the four questions given below.
- Each question carries 5 marks each.
- Answers to be written in A4 – sized papers with proper academic specification, name, Roll no , Reg no, Semester etc. Scanned and emailed to annweshadas92@gmail.com and sciencevcapd@gmail.com

INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE

1. What is glass? State its properties.
2. Give the classification of cement. What is its role?
3. Write a short note on fertilizers.
4. What are the applications of ceramics.

VIVEKANANDA COLLEGE
INTERNAL ASSESSMENT
4th SEMESTER
SUBJECT - CHEMISTRY

Answer the following questions.

Full Marks: 10

1. Compare the properties of lanthanoids and actinoids. 3
2. What are d-block elements? Give their electronic configuration. 1.5+1.5
3. Derive the van der Waal's equation for "n" mole of gases. What are the SI units of van der Waal's constant. (3+1)