



B.SC (ZBC) THIRD- SEM

ECOLOGY, WILD LIFE BIOLOGY, POLLUTION AND ZOOGEOGRAPHY

Last date of Submission-06/11/2016

Instruction

- 1) Write the responses to the assignment in your own handwriting.
- 2) Submit the responses to your HOD within the due date.
- 3) Write your name, program and Enrollment nu clearly at the top of the page.

ASSIGNMENT – 1

Q1A. Define the term ecology? List various branch of ecology?

- (l) Environment and adaptation to external environmental factors.

Q1B. What is soil? Give an account of role of edaphic factor of distribution of plant?

- (i) Soil types causes and consequences.

Q2A. Describe the wind or fire as an ecological factor?

Q2B. What do you mean by limiting factor? Describe Shel ford law of tolerance?

ASSIGNMENT – 2

Q1A. Define, tropic structure `and energetic?

Q1B. Describe, Community Development: Ecology Succession?

Q2A. Describe, Natural Resources: Their Utilization and Conservation?

Q2B. Concept of Endangered Species?



B.SC (ZBC) THIRD- SEM
PHYSICAL CHEMISTRY

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ASSIGNMENT – 1

Q1A what is mean by conservation of energy? Derive the expression for first law of thermodynamics.
What is work done in isothermal reversible expansion of an ideal gas?

Q1B what is Joule Thomson effect? Explain in detail?

Q2A what is Entropy? What is its physical significance .Derive the expression for entropy change?

Q2B what is Clasius Clayperon equation? Derive it?

ASSIGNMENT – 1

Q1A Describe the Debye Huckle Onsagar reaction for strong electrolyte.

Q1B what is Kohralaush law of independent migration of ions? Explain with example.

Q2A what is phase rule? Explain the phase diagram for one component system like water.

Q2B What of entropy of mixing of two or more nonreacting gases? Derive the expression.



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INORGANIC CHEMISTRY

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ASSIGNMENT – 1

- Q1A Explain Werner Theory of Coordination compounds. Determine and describe its structure with example of Platinum amines.
- Q1B Explain Bronsted-Lowry and Lewis concept of acid and base.
- Q2A Explain in detail the working and figure of Electrochemical cell.
- Q2B Define Metallurgy.Explain different methods of extraction of metals.

ASSIGNMENT –2

- Q1A Discuss the characteristics properties of first transition series.
- Q1B Give general characteristics and comparative treatment of Zr/Hf.
- Q2A Explain chemistry of Lanthanide elements.
- Q2B Explain chemistry of Actinide elements.



B.SC (ZBC) THIRD- SEM

DIVERSITY OF ANGIOSPERMS: SYSTEMATICS, DEVELOPMENT & REPRODUCTION

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Instruction

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ASSIGNMENT – 1

Q1A Describe herbaria & botanical gardens of India?

Q1B Describe classification of angiosperm given by Hutchinson's?

Q2A Economic importance of angiosperm plants?

Q2B Detailed account of Bentham & hookers classification of angiosperm?