

**P. K. Roy Memorial College, Dhanbad**  
**Department of Zoology**  
**Special Generic Internal Examination**  
**Session (2020 - 2023; 2021- 2024)**  
**Zoology GE**

**F.M. = 15 Marks**

**Internal Questions for Semester I**

**Paper: CC1A Theory**

**Answer any three questions:**

**5 x 3 = 15**

1. Describe the pathogenicity and treatment of disease caused by *Entamoeba histolytica*.
2. Describe the structure and life cycle of *Obelia*. Also define metagenesis.
3. Write a detail account on flight adaptation in birds.
4. Describe the characters and affinities of Prototheria.

**Paper: Practical**

**F.M. = 05**

**1. Comment on:**

**2.5x2 = 05**

- a. Hydra
- b. *Obelia* Colony

**Internal Questions for Semester II**

**Paper: CC-2A**

**Answer any three questions:**

**5 x 3 = 15**

1. Describe structure & function of plasma membrane.
2. Give a detail account on Mitochondria
3. Explain the ultra-structure of Chromosome.
4. Explain Mendel's law of Inheritance with suitable example.
5. Describe the mechanism of transcription of prokaryotes

**Paper: Practical**

**F.M. = 05**

**1. Comment on:**

**2.5x2 = 05**

- a. Analogous Organs
- b. *Archeopteryx*

**Internal Questions for Semester III**

**Paper: CC-3A**

**Answer any three questions:**

**5 x 3 = 15**

1. Describe the structure and classification of Carbohydrates.
2. Describe Glycolysis or Krebs's Cycle with suitable flow diagram.
3. Discuss the composition & classification of blood. Also mention its functions.
4. What is excretion? Describe the structure and function of nephron.
5. What is fertilisation? Describe the pre-fertilisation events.

**Paper: Practical**

**F.M. = 05**

**1. Comment On:**

- a. 24 hours of chick embryology
- b. T.S of Testis of Mammals

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**Internal Questions for Semester IV**

**Paper: CC-4A**

**Answer any three questions:**

**5 x 3 = 15**

1. Write an essay on energy flow in ecosystem.
2. What is bio-geochemical cycle? Explain Carbon cycle.
3. What is ecological succession? Also explain its different types.
4. Write a detail account on renewable & non-renewable energy sources.
5. Short notes on:
  - a. Greenhouse gases.
  - b. Food Chain and Food Web

**Paper: Practical**

**F.M. = 05**

**Answer all the questions:**

1. Estimate the pH of given sample of water.