

P. K. Roy Memorial College, Dhanbad
Department of Zoology
Special Generic Internal Examination
Session (2016 -19, 2017-20, 2018-21, 2019-22)
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 an essay on Water vascular system in Echinoderms.
4. Write a detail account on flight adaptation in birds.
5. Describe the characters and affinities of Prototheria.

Paper: Practical

F.M. = 05

1. Comment on:

2.5x2 = 05

- a. *Ascaris*
 - b. *Obelia* Colony
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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 Mendel's law of Inheritance with suitable example.
4. Write an essay on Mitosis.
5. Explain the ultra-structure of Chromosome.
6. Describe the mechanism of transcription of prokaryotes

Paper: Practical

F.M. = 05

1. Comment on:

2.5x2 = 05

- a. Homologous Organs
 - b. Archeopteryx
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Internal Questions for Semester III

Paper: CC-3A

5 x 3 = 15

Answer any three questions:

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

F.M. = 05

Paper: Practical

1. Comment On:

- a. 36 hours of chick embryology
- b. T.S of Ovary of Mammals

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. Ecological Pyramid
 - b. Greenhouse gases.

Paper: Practical

F.M. = 05

Answer all the questions:

1. Estimate the pH of given sample of water.