

Department of Zoology
R.S.P. College, Jharia
B.Sc. Semester III (Hons.) (Session 2020-2023)
1st Internal Examination 2022

Paper – C - 5 (Biochemistry)

F.M = 15 Marks

Answer any three questions:

3x5=15 Marks

Q1. Describe the structure and conformation of primary, secondary, tertiary and quaternary proteins with suitable diagrams.

Q2. Explain the general properties and classification of enzymes. (2+3=05)

Q3. Explain the mechanism of enzymes action and factors affecting enzymes activity.

Q4. Describe the Watson- Crick Model of DNA structure. What are the different types of RNA?

Q5. Describe Glycolysis or Krebs's Cycle with suitable flow diagram.

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Paper – C - 6 (Mammalian Physiology)

F.M = 15 Marks

Answer any three questions:

3x5=15 Marks

Q1. Describe the mechanism of digestion & absorption of carbohydrate along with the GIT.

Q2. Describe the concept of BMR (Basal Metabolic Rate)

Q3. Describe the histo-physiology of kidney.

Q4. Describe the structure and types of neuron.

Q5. Discuss the Composition of blood and its functions.

Q6. Short notes on:

- a) Physiology of urine formation**
- b) Composition of Lymph**

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Paper – C - 7 (Endocrinology)

F.M = 15 Marks

Answer any three questions:

3x5=15 Marks

Q1. Describe the structure and functions of Adenohypophysis.

Q2. Describe the mechanism of action and function of Vasopressin or ADH.

Q3. Describe the structure and function of Thyroid gland.

Q4. Discuss about the disorders related to hormonal abnormalities of thyroid gland.

Q5. Describe the histo-physiology of adrenal gland.

Q6. Short notes on any two:

- a) Diabetes Insipidus vs. Diabetes Mellitus**
- b) Posterior Pituitary**
- c) Classification of Hormones**
- d) Gigantism vs. Acromegaly**

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Paper – P 3 practical

F.M = 15 Marks

All questions are compulsory:

3x5=15 Marks

Q1. Prepare Haemin crystal of given blood sample.

(05)

Q2. Detect the presence of bio-molecules in the unknown sample (Glucose).

(05)

Q3. Comment on:

(2.5x2=05)

a) T.S of Stomach

b) T.S of Thyroid gland

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Paper – Theory CCA 3

F.M = 15 Marks

Answer any three questions:

3x5=15 Marks

- Q1. Describe the structure and classification of Proteins.**
- Q2. Describe Glycolysis or Krebs's Cycle with suitable flow diagram.**
- Q3. What is cleavage? Describe the different types of cleavage.**
- Q4. What is fertilisation? Describe the pre-fertilisation events.**
- Q5. Describe the composition and classification of blood.**

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Paper – Practical

F.M = 05 Marks

Q1. Comment on:

2.5x=05

- a) T. S of ovary
- b) 24 Hrs of Chick Embryology.