

R.S.P COLLEGE, JHARIA(Belagaria)
B.Sc. Semester VI Zoology (Hons.)
Internal Examination, 2021

Paper- C-1 3(Molecular Biology & Biotechnology)

FM- 1 5 marks

Answer the following questions as per instructions

1 . Long type answer question. Answer any two of the following: $5 \times 2 = 10$

- a) Write down the mechanism of DNA replication in E.coli.
- b) What is transcription? Write down the mechanism of transcription in prokaryotes.
- c) Define transgenic animals? Explain with suitable example.
- d) Give a detail account on Lac Operon model.

2. Short notes on any two: $2.5 \times 2 = 05$

- a) Repressible Operon with suitable example
- b) Inducible Operon with suitable example
- c) Topoisomerase
- d) DNA Helicase
- e) Negative regulation of operon model

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Paper- C-14(Medical Zoology)

FM- 1 5 marks

Answer any three questions. Each carries equal marks. (5x3= 15)

Q1 . Describe the life history and pathogenicity of the organism causing amoebic dysentery.

Suggest methods for the control of the disease.

Q2. What causes Kala-azar? Give a detailed description of the causative agent and its preventive measures.

Q3. What disease is caused by Ascaris? Write an account of its pathogenicity, therapy and prophylaxis.

Q4. What causes Yellow fever? Write an account of the causative agent, symptoms and its preventive measures.

Q5. Describe, with the help of a well labeled diagram, the morphology, clinical features of Anopheles mosquito.

Q6. Short notes on any two:

- a) HIV
- b) Gravid Proglottid
- c) Vaccine
- d) Cholera

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Paper- Core Practical

FM- 10 marks

Answer any three questions. Each carries equal marks. $2 \times 5 = 10$

Q1 . Comment on the following:

- a) Dolly Sheep
- b) Transgenic mice
- c) Taenia solium
- d) Aedes mosquito
- e) Trypanosoma

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Paper- DSE-3 (Wild Life Conservation and Management)

FM- 1 5 marks

Answer any three questions. Each carries equal marks. $5 \times 3 = 15$

Q1 . Write an account on the wildlife conservation strategies. Also mention the importance of conservation.

Q2. Give a detail account on wildlife protection act 1 972. And mention its amendments.

Q3. Write an essay on Eco-Tourism.

Q4. Write an essay n Project Tiger- Tiger reserve in India.

Q5. Short notes on any two:

- a) Pug marks
- b) Sanctuaries
- c) Red data Book
- d) Census Method

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Paper- DSE-4 (Pest and Pest Management)

FM- 15 marks

Answer any three questions. Each carries equal marks. $5 \times 3 = 15$

Q1 . Define Pest. Also give a detail account on the types of pests.

Q2. What is integrated pest management? Describe its mechanical, biological & chemical control.

Q3. Write a brief essay on insecticides OR Pesticides with suitable examples.

Q4. Describe the biology of paddy pest and its management.

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Paper- DSE- Practical FM- 10 marks

All questions are compulsory

Q1 . Comment on: $2 \times 3 = 06$

a) Locust

b) Nikon Binocular

c) DSLR Camera

Q2. Comment on any two endangered animal species. $2 \times 2 = 04$