

Department of Botany, RSP Jharia College, Jharia, Dhanbad

Internal Examination for Botany Honors, SEM-IV

Subjects: **CC-VIII**: Molecular Biology (Syllabus: Nucleic Acid; Str. of DNA and RNA and Replication of DNA)

Date of examination:

/ Time:

Full Marks- 10

Attendance and Assignment: 05

Note: 1. Answer should be written in your own handwriting in your own language. Please mention your Name; University Roll Number/Registration Number; Name of Subject; Session and Date of Examination.

Note: 2. Answers should be written in a regular ruled note book, color pen and pencils can be used to highlight your answers.

Answer all the questions, each question carries 5 marks each

Que 1: Prove that DNA is genetic material by illustrating Griffith Experiment?

Que 2: Write short notes on Polytene and Lambrush Chromosomes.

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Subjects: **CC-IX:** Plant Ecology (Syllabus: Plant communities and Environmental Pollution)

Date of examination:

/ Time:

Full Marks- 10

Attendance and Assignment: 05

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Answer all the questions, each question carries 5 marks each

Que 1: What do you mean by community? Write about the synthetic characters of community.

Que 2: Write an essay on Environmental pollution: Water Pollution.

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Internal Examination for Botany Honors, SEM-IV

Subjects: **CC-X**: Systematics (Syllabus: Family: Fabaceae, Ranunculaceae, Species Concept, Natural and Artificial System of Classification)

Date of examination: / Time:

Full Marks- 10

Attendance and Assignment: 05

Note: 1. Answer should be written in your own handwriting in your own language. Please mention your Name; University Roll Number/Registration Number; Name of Subject; Session and Date of Examination.

Note: 2. Answers should be written in a regular ruled note book, color pen and pencils can be used to highlight your answers.

Answer all the questions, each question carries 5 marks each

Que 1: Write in detail about the floral characters of Family: Fabaceae

Que 2: Write about the Bentham and Hooker system of Classification.

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Subjects: **Practical**(Syllabus: Botanical families, Str. of DNA, Pond Ecosystem/Grassland Ecosystem, Food chain and Food web)

Date of examination:

/ Time:

Full Marks- 15

Note: 1. Answer should be written in your own handwriting in your own language. Please mention your Name; University Roll Number/Registration Number; Name of Subject; Session and Date of Examination.

Note: 2. Answers should be written in a regular ruled note book, color pen and pencils can be used to highlight your answers.

Answer all the questions, each question carries 5 marks each

Que 1: Write about the Structure of DNA

Que 2: Write about the floral characteristic of Family: Poaceae.

Que 3: Write the Botanical Name and the Family of following:

- a. Wheat
- b. Tulsi

Internal Examination for SEC, SEM-IV

Subjects: (Overview on Basic Current Sciences)

Date of online examination:

Full Marks- 10

Attempt all the questions, each question carries 1 marks.

Que.1. Water Vapour is?

- a. A Gas
- b. A Cloud Droplet
- c. A rain drop
- d. A Snowflake

Que.2. The place where the worst nuclear disaster took place in World?

- a. Washington
- b. Chernobyl
- c. Bhopal
- d. Japan

Que.3. The accumulation of non-biodegradable pesticides in human are referred as?

- a. Biodegradation
- b. Bioaccumulation
- c. Biomagnification
- d. Bioremediation

Que.4. The main energy source of Environment is:

- a. Electrical Energy
- b. Chemical Energy
- c. Bioelectric Energy
- d. Solar Energy

Que.5. Soil Chemistry is Considered as an factor?

- a. topographic
- b. ecotonal
- c. biological
- d. edaphic

Que.6. The study of Food Chains and Food Webs is observed in the phenomenon known as?

- a. Biological chain
- b. Ecosystem
- c. Biological magnification
- d. Energy flow

Que.7. BOD Stands for?

- a. Biological Oxygen Decrease
- b. Biological Oxygen Demand
- c. Biotic Oxygen Demand
- d. None of the above

Que.8. What is the full form of DDT?

- a. Dichlorodiphenyltrichloroethane
- b. Dichlorophenyltrichloroethane
- c. Dichlorophenyltrichloromethane
- d. Dichlorodiphenyltrichloromethane

Que.9. Which book written by Rachel Carson resulted in Banning of DDT in United States of America?

- a. Silent Spring
- b. The environmentalism
- c. Food Chain
- d. Biomagnification

Que.10. Which group of vertebrates comprises the highest number of endangered species?

- a. Fishes
- b. Mammals
- c. Birds
- d. Reptiles

