

FIRST REVISION EXAM - 2025

Standard - XII

Reg.No.

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Time: 3.00 hrs.

BIOLOGY

Marks: 70

PART - I - BIO - BOTANY
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Marks: 35

SECTION - I

I. Choose the best answer.

8×1=8

- Size of pollen grain in Myosotis
a) 10 micrometer b) 20 micrometer c) 200 micrometer d) 2000 micrometer
- Select the period for Mendel's hybridization experiments
a) 1870 - 1877 b) 1850 - 1870 c) 1857 - 1869 d) 1856 - 1863
- Virus free plants are developed from
a) Organ culture b) Meristem culture c) Protoplast culture d) Cell suspension culture
- A specific place in an ecosystem, where an organism lives and performs its functions is
a) Habitat b) Niche c) Landscape d) Biome
- Alga used for the production of single Cell Protein
a) Methylophilus b) Alcaligenes c) Saccharomyces cerevisiae d) Chlorella
- Groundnut is native of _____
a) Philippines b) India c) Brazil d) North America
- Rice variety with salinity tolerance and pest resistance is
a) Natural rice variety b) Atomita 2 c) Norin 10 d) Golden rice
- Which of the following is / are not a natural ecosystem?
a) Forest ecosystem b) Rice field c) Grassland ecosystem d) Desert ecosystem

SECTION - II

II. Answer any four of the following questions.

4×2=8

- Define the term Diplospory?
- What is an Atavism?
- Name the chemicals used in gene transfer?
- Pyramid of energy is always upright. Give reasons?
- What is Vulcanization?
- Differentiate primary introduction from secondary introduction?

SECTION - III

III. Answer any three of the following questions. Question No.19 is compulsory.

3×3=9

- What is gene mapping? Write its uses?
- What is Cryopreservation?
- What is Albedo effect and write its effects?
- What are the effects of Ozone depletion?
- Draw the structure of embryo sac and label its parts.

SECTION - IV

IV. Answer all the Questions.

2×5=10

- With a suitable diagram explain the structure of an ovule? (OR)
 - Mention the applications of Biotechnology?
- What are psychoactive drugs? Add a note Marijuana and Opium. (OR)
 - What are the effects of deforestation?

PART - II - BIO - ZOOLOGY

Marks: 35

SECTION - I**I. Answer all the questions. akwaacademy.blogspot.com**

8×1=8

1. In which type of parthenogenesis are only females produced?
a) Arrhenotoky b) Thelytoky c) Amphitoky d) Both a and b
2. Select the incorrect action of hormonal contraceptive pills from the following.
a) inhibition of ovulation b) inhibition of spermatogenesis
c) Changes in cervical mucus impairing its ability to allow passage and transport of sperms
d) Alteration in uterine endometrium to make it unsuitable for implantation
3. The Y chromosome was discovered by _____.
a) Stevens b) Henking c) Lyon d) John cotto
4. Which of the following is the correct sequence of event with reference to the central dogma?
a) Transcription, Translation, Replication b) Transcription, Replication, Translation
c) Duplication, Translation, Transcription d) Replication, Transcription, Translation
5. Cirrhosis of liver is caused by chronic intake of _____.
a) Opium b) Alcohol c) Tobacco d) Cocaine
6. World biofuel day is observed on _____.
a) 6th October b) 8th November c) 10th August d) 12th September
7. Some organisms are able to maintain homeostasis by physical means _____.
a) Conform b) Regulate c) Migrate d) Suspend
8. Excess of fluoride in drinking water causes
a) Lung disease b) Intestinal infection c) Fluorosis d) None of the above

SECTION - II**II. Answer any four of the following questions.**

4×2=8

9. What is meant by paedogenesis ? Give example?
10. Name the active chemical found in the medicinal plant Rauwolfia Vomitoria. What type of diversity it belongs to?
11. Explain how " Rosie" is different from normal cow.
12. Define Ethology?
13. What is Mayer - Rokitansky syndrome?
14. Name the three zones of lymph node?

SECTION - III**III. Answer any three of the following questions. Q.No.19 is compulsory.**

3×3=9

15. Write the main functions of reproductive system?
16. Write short note on cryopreservation?
17. Differentiate totipotent from pluripotent?
18. Give the characters of a Biome?
19. Mention the main objections to Darwinism?

SECTION - IV**IV. Answer the following questions.**

2×5=10

20. a) Describe the structure of the humans ovum with a neat labelled diagram. (OR)
b) Explain the structure of HIV with a neat labelled diagram?
21. a) Mention the Salient features of genetic code? (OR)
b) Give an account of the Properties of soil?
