

UP Board 12 Biology (348 (GI)) Question Paper

Time Allowed :3 hours	Maximum Marks :70	Total questions :33
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General Instructions

Read the following instructions very carefully and strictly follow them:

- 1. All questions are compulsory.**
- 2. Illustrate your answers with labeled diagrams, wherever necessary.**
- 3. Marks allotted to each question are mentioned against it.**

Multiple Choice Type Questions

1. (a) Which organ in flowers represents the female reproductive organ?

- (A) Gynoecium
 - (B) Androecium
 - (C) Anther
 - (D) Tapetum
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(b) How many testis are found in the male reproductive system?

- (A) 1 (one)
 - (B) 1 pair (one pair)
 - (C) 2 pairs (two pairs)
 - (D) 3 pairs (three pairs)
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1. (c) The full form of MRI is:

- (A) Metaphasic Resonance Imaging
 - (B) Magnetic Resonance Imaging
 - (C) Magnetic Resonance Immunity
 - (D) Metaphasic Reo Imaging
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(d) Sickle Cell Anemia is an example of which type of mutation?

- (A) Point mutation
 - (B) Aneuploidy
 - (C) Deletion
 - (D) Translocation
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Very Short Answer Type Questions

2. (a) Down's syndrome occurs due to abnormality of which pair of chromosomes?

(b) Write the name of any one contraceptive used by females.

(c) Which sugar is present in RNA?

(d) The development of male gametophyte occurs in which organ of the flower?

(e) Sperms are formed after which type of division in male germ cells?

Short Answer Type Questions I

3. (a) Write down two functions of the pituitary gland.

(b) Define Xenogamy.

(c) What are parthenocarpic fruits? Give one example.

(d) Describe any two functions of a promoter.

(e) Write down the names of any two sex-linked diseases in humans.

Short Answer Type Questions II

4. (a) Mention the causes of cancer in humans.

(b) Explain Allergy with examples.

(c) Write the full form of BOD and comment on it.

(d) Comment on productivity.

6. (a) Describe the Chromosome theory of Genetics.

(b) Describe the importance of Biotechnology in human welfare.

(c) How does co-extinction damage biodiversity? Describe with example.

(d) Highlight the importance of fungi in the production of antibiotics, with examples.

Long Answer Type Questions I

7. Describe the energy flow in an ecosystem with diagrams.

OR Describe the different components of an ecosystem.

8. What do you understand by chromosomal aberrations? Describe any two aberrations.

OR Describe the Hardy-Weinberg principle.

9. DNA is a genetic material - Prove it with the description of an experiment.

OR Describe the following in brief:

(a) DNA Polymorphism

(b) Bioinformatics
