

UP Board Class 12 Biology 2026 (Set 348 EJ) Question Paper



General Instructions

- (i) This question paper contains 9 questions. All questions are compulsory.
- (ii) It comprises 4 single-correct multiple-choice questions.
- (iii) Attempt every question; detailed solutions are provided in the companion solutions booklet.

1(a). Which of the following is a cyanobacteria?

- (A) Spirogyra
- (B) Glomus
- (C) Oscillatoria
- (D) Chlorella

1(b). The ovule is attached to the placenta by means of a stalk called

- (A) Hilum
- (B) Funicle
- (C) Embryo sac
- (D) Nucellus

1(c). Who coined the term 'linkage'?

- (A) Henking
 - (B) W. Sutton and T. Boveri
 - (C) T.H. Morgan
 - (D) Tschermak
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1(d). Which of the following hormones is secreted by the placenta?

- (A) Progestogen
 - (B) Relaxin
 - (C) Prolactin
 - (D) Growth hormone
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2(a). Write the name of any one cloning vector.

2(b). Write the name of any one water pollinated plant.

2(c). Write the name of any one ecto-parasite.

2(d). Give the names of two decomposers.

2(e). Which gas is used for the storage of pollen grains?

3(a). Define micro-propagation.

3(b). Draw a ray diagram (flow chart) of energy flow in an ecosystem.

3(c). Write a short note on biopiracy.

3(d). Comment upon biological evolution.

3(e). Write the importance of species diversity in an ecosystem.

4(a). Write a short note on self-incompatibility.

4(b). What is colostrum? Write its importance.

4(c). Write a short note on birth control.

4(d). What is a biodiversity hot-spot? Describe with an example.

5(a). Briefly explain the test cross.

5(b). Briefly describe crossing over.

5(c). Write a short note on the prevention and control of Drug/Alcohol abuse.



5(d). What is a terminator codon? Write two examples.



6(a). Distinguish between convergent evolution and divergent evolution.



6(b). Give a diagrammatic presentation of the stages in the life cycle of Plasmodium in human.



6(c). Write a descriptive note on BOD.



6(d). Write a note on lymphocytes.



7. What is oogenesis? Describe the process of oogenesis with diagram.

OR

Write explanatory notes on the following: (i) Water pollination (ii) Polyembryony.



8. Describe Mendel's law of one gene (monohybrid) inheritance.

OR

Describe chromosomal aberration with examples.

9. Write an essay on population interactions.

OR

What is an ecological pyramid? Describe different types of ecological pyramid with diagram.