

UP Board Class 12 Biology 2026 (Set 348 EI) 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). The sudden discontinuation of the regular dose of drug/alcohol causes:

- (A) Turner syndrome
- (B) Deficiency syndrome
- (C) Withdrawal syndrome
- (D) All of these

1(b). Citric acid is produced by:

- (A) *Aspergillus niger*
- (B) *Clostridium butylicum*
- (C) *Acetobacter aceti*
- (D) *Trichoderma polysporum*

1(c). Which of the following statements explains parasitism?

- (A) Only one organism is benefitted
 - (B) Both organisms are benefitted
 - (C) Both organisms are harmed
 - (D) Neither of both the organisms is benefitted or harmed
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1(d). Which of the following is known as universal codon?

- (A) AAA
 - (B) CCC
 - (C) GGG
 - (D) UUU
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2(a). What is cloning?

2(b). Which type of cell division occurs during cleavage?

2(c). Name the gases which were used by S.L. Miller in the experiment of origin of life.

2(d). Write the names of any two biodiversity hot-spots.

2(e). What is sporopollenin?

3(a). What is Mendelian disorder?

_____ ◆ _____

3(b). Write a note on organic farming.

_____ ◆ _____

3(c). Write the causes of loss of biodiversity.

_____ ◆ _____

3(d). Write a note on biological control of pests and diseases.

_____ ◆ _____

3(e). Draw a labelled diagram of T.S. of a mature dithecous anther.
(described in words, as a text-only labelled description)

_____ ◆ _____

4(a). Write the importance of cross pollination.

_____ ◆ _____

4(b). Write a short note on water pollinated plants.

_____ ◆ _____

4(c). Describe sterilisation in detail.

_____ ◆ _____

4(d). Describe the strategies for reproductive health.

_____ ◆ _____

5(a). Describe allele and multiple allele.

_____ ◆ _____

5(b). Explain transfer RNA in brief.

5(c). What is evolution? Write two evidences of evolution.

5(d). What do you understand by Widal test? Describe.

6(a). Write a note on Ganga action plan.

6(b). Describe DNA fingerprinting technique in brief.

6(c). How would you produce pest resistant plants?

6(d). Which type of population interaction is found in lichen? Describe.

7. Write an essay on population stabilization.

OR

State detail account of any two drugs obtained from plants and their effect.

8. Describe the sex determination in human and honeybee.

OR

What is primary productivity? Discuss in brief the factors affecting the primary productivity.



9. Describe the applications of biotechnology in agriculture.

OR

Describe negative interactions in plants with example.