

JK Board Class 12, 2026 Biology Question Paper

Time Allowed :3 Hours

Maximum Marks :70

Total questions :38

General Instructions

Read the following instructions very carefully and strictly follow them:

1. The paper is divided into Section A and Section B.
2. Section A includes objective-type questions.
3. All questions in Section A are compulsory.
4. Section B includes short answer, and long answer type questions.
5. Answers must be written legibly within the word limit.
6. Use of unfair means or electronic devices is prohibited.
7. Follow the correct format and instructions for each section.

Section - A

1. Which of the following is a method of contraception?

- (A) IVF
- (B) Vasectomy
- (C) Amniocentesis
- (D) ZIFT

2. In which of the following human disorders is there a defect in the X chromosome?

- (A) Hemophilia
- (B) Down's syndrome
- (C) Klinefelter's syndrome
- (D) Thalassemia

3. What is the major function of the placenta in humans?

- (A) Hormonal regulation
 - (B) Nutrient exchange
 - (C) Blood clotting
 - (D) Oxygen supply
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4. The Hardy-Weinberg principle is based on the assumption that:

- (A) There is no mutation
 - (B) There is natural selection
 - (C) There is genetic drift
 - (D) All of the above
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5. Which of the following is a mode of asexual reproduction in flowering plants?

- (A) Apomixis
 - (B) Pollination
 - (C) Cross-fertilization
 - (D) Parthenocarpy
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6. Who proposed the Chromosomal Theory of Inheritance?

- (A) Mendel
 - (B) Sutton and Boveri
 - (C) Darwin
 - (D) Morgan
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7. In which of the following processes does DNA replicate itself?

- (A) Transcription

- (B) Translation
 - (C) DNA Replication
 - (D) Gene Expression
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8. Which of the following is an example of a biopesticide?

- (A) Bt cotton
 - (B) Penicillin
 - (C) Trichoderma
 - (D) Biogas
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7. What is the role of the lac operon in gene regulation?

- (A) Protein synthesis
 - (B) Transcription control
 - (C) Cell division
 - (D) DNA replication
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8. Which of the following is the site of fertilization in humans?

- (A) Uterus
 - (B) Fallopian tube
 - (C) Ovary
 - (D) Cervix
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Section - B

9. What are Mendelian disorders? Describe Thalassemia with an example.

10. Explain the concept of evolution and the major evidences supporting biological evolution.

11. Explain the process of implantation in humans and its significance in pregnancy.

12. Discuss the different methods of birth control and explain their importance in reproductive health.

13. Define genetic drift and explain its importance in evolution.

14. What is IVF and how does it help in treating infertility?
