

# UK Board Class 12 Biology Question Paper 2026

Time Allowed :3 Hours

Maximum Marks :70

Total questions :26

## 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. (A) Functional megaspore in a flowering plant develops into-**

- (A) Endosperm
  - (B) Ovule
  - (C) Embryo sac
  - (D) Embryo
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**1. (B) The menstrual cycle in females is regulated by which hormones?**

- (A) Estrogen and Progesterone hormones only
  - (B) Follicle-stimulating hormone (FSH) and Luteinizing hormone (LH) only
  - (C) Luteinizing hormone (LH) and Testosterone
  - (D) FSH, LH, Estrogen and Progesterone
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**1. (C) Who gave the theory of Inheritance of acquired characteristics?**

- (A) Darwin
  - (B) Lamarck
  - (C) Mendel
  - (D) Wallace
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**1. (D) Sertoli cells are present in:**

- (A) Kidney
  - (B) Testis
  - (C) Liver
  - (D) Ovary
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**1. (E) The Bacteria found in the root nodules of Leguminous plants is-**

- (A) Rhizobium
  - (B) Azotobacter
  - (C) Staphylococcus
  - (D) Lactobacillus
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**1. (F) The pyramid of energy is-**

- (A) Always inverted
  - (B) Always upright
  - (C) Sometimes upright and sometimes inverted
  - (D) None of these
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**1. (G) In desert plants, leaves modified into-**

- (A) Stem
- (B) Fruits

(C) Spines

(D) Roots

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**Section - B**

**2. In which part of the body is the male reproductive system located?**

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**3. What is the cross called, when a dominant phenotype plant is crossed with the recessive parent plant instead of self-crossing?**

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**4. Why are there large holes in 'Swiss Cheese'?**

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**5. Which organisation of Indian Government makes decisions regarding the validity of GM research and the safety of introducing GM organisms for public services?**

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**6. Explain the 8-nucleated mature embryo sac of a typical angiospermic flower with the help of a labelled diagram only.**

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**7. Mention the location and function of mitochondria in sperm.**

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**8. 'Lactational amenorrhea is a contraceptive method'. Write any two reasons in support of this.**

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**9. Write the genotype of:**

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**10. Match the following:**

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**11. Write any two benefits of lactic acid bacteria (LAB).**

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**12. What do 'Eco', 'R' and 'I' represent in enzyme EcoRI?**

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**13. Write the role of UV light and ethidium bromide during gel electrophoresis.**

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**14. Write the functions of Cry I Ab and Cry II Ab.**

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**15. What will be the effect on decomposition rate if: (a) There is high temperature and humidity? (b) The soil is waterlogged (anaerobic condition)? (c) There is low temperature and drought?**

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**16. Development of mature pollen grain from Pollen Mother Cell (PMC):**

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**17. Why is *Drosophila melanogaster* used for genetic study?**

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**18. Criteria for a molecule to act as genetic material:**

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**19. Neanderthal Man:**

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**20. Three things affecting human health:**

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**21. Difference between exonuclease and endonuclease:**

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**22. Processes causing population density fluctuations:**

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**23. Latitudinal gradient:**

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**24. (Draw a circle showing Spermatogonia, Primary spermatocyte, Secondary spermatocyte, Spermatids, and Sertoli cells).**

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**25. Describe:**

**(A) Punnett square:**

**(B) Histones:**

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**26. Case Based Question - Sewage Treatment:**

Sewage (wastewater) generated from households and industries contains various pollutants that can harm the environment and human health if discharged without treatment. A municipality is planning to set up a sewage treatment plant to address this issue.

**Why is sewage treatment necessary? Explain briefly.**

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