



# BIOLOGY

## BOOKS - SHARAM PUBLICATION

### 2018 QUESTION PAPER

#### Exercise

1. When propagating untis like seeds and spores enter a barren area to initiate the process of succession, it is called\_\_\_\_\_

A. nudation

B. reaction

C. ecesis

D. migration

**Answer:**



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**2. Choose the correct option**

The process by which scion is inserted

successfully into the stock to form a new plant  
is called .....

A. layering

B. cutting

C. grafting

D. budding

**Answer:**



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3. In ....., pollen tube enters through micropyle into the ovule.

A. porogamy

B. chalazogamy

C. mesogamy

D. herkogamy

**Answer:**



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4. If allele for tallness (  $TT$  ) is dominant and dwarfness (  $tt$  ) is recessive , then in cross between \_\_\_\_\_ 50% of the offsprings will be dwarf .

A.  $T \times$

B.  $Tt \times$

C.  $\times$

D.  $Tt \times Tt$

**Answer:**



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5. In secondary treatment of sewage in open bioreactors , the microorganisms grow and multiply to form \_\_\_\_\_

A. manure

B. compost

C. sludge

D. sediment

**Answer:**



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**6. Correct the statements:**

The outer sterile tissue that provides nourishment to the developing microspores in microsporangia is called endothecium.



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**7. Correct the statements of each bit, if necessary:**

The number of deaths taking place in a

particular population in unit time is called natality.



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8. Correct the statements of each bit, if necessary, by changing the underlined words only:

Excessive nourishment that causes algal bloom is known as biomagnification.



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9. Correct the statements of each bit, if necessary, by changing the underlined words only:

Naked plant cell without cell wall is called plasmalemma.



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10. What is the complementary base of adenine in RNA?



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**11.** Write notes with 2 to 3 important points :

Biodiversity hot spots



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**12.** Write notes with 2 to 3 important points :

Lac Operon concept



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**13.** Write a short note on food chain.



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**14.** Write note on :

Codominance.



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**15.** Write note on :

Biofortification



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**16.** Write notes: Alcoholic beverages



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**17.** Differentiate between nuclear endosperm and cellular endosperm



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**18.** Distinguish between: Genetic diversity and species diversity





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**19.** Differentiate between explant and callus.



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**20.** Discuss Mendel's dihybrid cross with checker board.



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**21.** Give an account of development of female gametophyte in angiosperms.



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**22.** Describe initiation step of translation in prokaryotes.



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**23.** Answer within 200 words : Give an account of secondary air pollutants .



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