



# BIOLOGY

## BOOKS - SHARAM PUBLICATION

### 2015 QUESTION PAPER

#### Exercise

1. Fill in the blanks: To form a continuous DNA molecule, the enzyme \_\_\_\_\_ joins okazaki fragments.

A. primase

B. polymerase

C. helicase

D. ligase

**Answer:**



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**2. A free-living nitrogen-fixer is**

A. Rhizobium

B. Phosphobacteria

C. Azotobacter

D. Esherichia

**Answer:**



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3. In coconut leaves, \_\_\_\_\_ type of senescence is seen.

A. simultaneous

B. sequential

C. whole plant

D. irregular

**Answer:**



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4. In chlorophyll molecule, \_\_\_\_\_ is a component.

A. magnesium

B. iron

C. sulphur

D. manganese

**Answer:**



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5. Fill in the blanks: When two organisms live with mutual benefit, it is called \_\_\_\_\_.

A. symbiosis

B. parasitism

C. autorophism

D. saprophytism

**Answer:**



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**6.** Correct the statements of each bit, if necessary, by changing the underlined word only:

In ethyl alcohol production, the unicellular fungus, *Penicillium* is used



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7. Correct the statements of each bit, if necessary, by changing the underlined word only:

The movment of leaves of touch-me-not plant induced by touch is called thermonasty.



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

The term 'gene' was coined by deVries in the year 1909.



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9. Correct the statements :

The first stable product of  $CO_2$  fixation in  $C_3$  plants is PEP.



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**10. Write note on**

Quantitative inheritance



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**11. Write note on**

tRNA



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**12.** Write a short note on secondary treatment of sewage.



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**13.** Write note on  
Seed germination factors



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**14. Write note on**

Plasmolysis



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**15. Write note on**

Transpiration - a necessary evil



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**16.** Write note on

Red drop



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**17.** Write a note on decomposers.



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**18.** Differentiate between

Phototropism and geotropism



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**19. Differentiate between**

Hydroserere and Xeresere



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**20. Differentiate between**

Diffusion and Imbibition



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**21. Differentiate between**

**Food Chain and Food Web**



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**22. Discuss the cohesion-tension theory of ascent of sap.**



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**23. Describe the physiological effects of auxin.**





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**24.** Give an account of glycolysis.



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**25.** Discuss the process of translation in detail.



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