

**MP Board Class 12 Biology  
Previous Year Question Paper 2017**

**A-437 (E/H)**

**BIOLOGY 2017**

**Time : 3 Hours ]**

**Class : 12th**

**[ M. M. : 75**

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**Instructions:**

- (i) All questions are compulsory.
- (ii) Questions paper has two sections 'A' and 'B'
- (iii) In section 'A' there are objective type questions from question no. 1 to 4 Each carries 5 marks.
- (iv) In section 'B' internal options are given from question 5 to 20.
- (v) Question no. 5 to 8 are very short answer type. Which has word limit of 30 words approximately. Each question carries 2 mark.
- (vi) Question no. 9 to 12 are short answer type word limit is approximately 75 words. Each question carries 3 marks.
- (vii) Question no. 13 to 17 are long answer type word limit is approximately 120 words. Each question carries 4 marks.
- (viii) Question no. 18 to 20 are long answer type word limit is approximately 150 words. Each question carries 5 marks.
- (ix) Draw neat and labelled diagram wherever necessary.

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**SECTION - A (Objective type Questions)**

- Q. 1. Fill in the blanks- 5
- (a) Liver secretes.....juice.
  - (b) Water absorption by using energy is called.....
  - (c) Outer membrane of pollen grain is called.....
  - (d) Lichen is an example of.....
  - (e) Theory of population growth was given by.....
- Q. 2. Choose the correct option. 5
- (a) What will happen when a cell is kept in a hypertonic solution-
    - (1) Plasmolysis
    - (2) Osmosis
    - (3) Excretion
    - (4) Evaporation
  - (b) Blood Bank of human is-
    - (1) Spleen
    - (2) Lungs
    - (3) Heart
    - (4) Kidney
  - (c) Hormone Stimulating vernalization is-
    - (1) Vernalin
    - (2) Florizen
    - (3) Abscisic acid
    - (4) Colchicin
  - (d) Pyramid of energy in a forest ecosystem is always -
    - (1) Vertical
    - (2) Conical
    - (3) First vertical then conical
    - (4) Elliptial

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- (e) AIDS test is known as-
- |                        |             |
|------------------------|-------------|
| (1) Australian antigen | (2) Alisa   |
| (3) Thyro test         | (4) pH test |

Q.3. Write the answer in one word/sentence.

- (1) In which part of chloroplast, photosynthetic pigments are found?
- (2) Where do you find Glenoid cavity?
- (3) Name a total root parasitic plant.
- (4) Write botanical name of coconut.
- (5) What is called scientific study of human population.

Q.4. Match the columns -

- |                |                        |
|----------------|------------------------|
| (a) Hg, As     | (1) Actinomycetes      |
| (b) Vitamin C  | (2) Alexander Fleming  |
| (c) Insulin    | (3) Poisonous Elements |
| (d) Decomposer | (4) Scurvy             |
| (e) Antibiotic | (5) Diabetes           |

**SECTION - B (Very Short answer type questions)**

- Q.5. Write differences between Trachiole and bronchiole. 2
- (OR) Name any two diseases related to bone.
- Q.6. What is apomixis? 2
- (OR) What is sexual dimorphism?
- Q.7. Write any two advantages and two disadvantages of self pollination. 2

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- (OR) What is a test tube baby. 2
- Q. 8. What is food chain. 2
- (OR) Write names of any four green house gases. 3
- Q. 9. Define the following-  
(1) Osmotic pressure (2) Suction pressure (3) Root pressure
- (OR) Write one symptom each of the deficiency of the following elements in plants.  
(1) Nitrogen (2) Phosphorus (3) Magnesium
- Q. 10. Describe in brief the structure of chloroplast. 3
- (OR) Write any three differences between aerobic and anaerobic respiration.
- Q. 11. Define the following- 3  
(1) Population (2) Mortality (3) Natality
- (OR) What do you understand by Yoga? Write its two advantages.
- Q. 12. What are Biopesticides? Write its advantages & harmful effects one each.
- (OR) What are interferons? Write their significance.

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**(Long answer type questions)**

- Q. 13. Write any four difference between arteries and veins. 4
- (OR) Write any four difference between Tendon and ligaments.
- Q. 14. Explain structure of human tooth with the help of diagram. 4
- (OR) Explain structure of a Neuron, with diagram.
- Q. 15. Draw a labelled diagram of T.S. of plant ovule. 4
- (OR) What is photoperiodism? Write it's importance.
- Q. 16. What is mimicry? Write it's types. 4
- (OR) What is Biodiversity? Write any three efforts of conservatin of Biodiversity.
- Q. 17. Explain any four common problems of Adolescence. 4
- (OR) What is Vermicompost? Write it's significance.
- (Long answer type questions)**
- Q. 18. Where does Calvin cycle take place? Explain Calvin cycle by ray diagram only.
- (OR) Explain any five factors ifluencing water absorption in plants.
- Q. 19. Explain in reflex action with diagram. 5
- (OR) Explain the process of digestion in human stomach.
- Q. 20. What do you understand by ecological adaptations? Write any four adaptions in plants occurring due to lack of water. 5
- (OR) Describe major causes, effects and control measures of water pollution.