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## **Previous Year Paper**

**Biology - 2011**

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## One Word Answers

1. Give scientific terms for each of the following

The development of more than one embryo in a seed.

[Answer](#)

2. Give scientific terms for each of the following

The process of growing old.

[Answer](#)

3. Give scientific terms for each of the following

Method of inducing early flowering in plants by pre-treatment of their seeds at lower temperatures.

[Answer](#)

4. Give scientific terms for each of the following

Determination of age of a tree by counting the number of annual rings.

[Answer](#)

5. Give scientific terms for each of the following

The type of growth in which the volume of the body increases without the increase in the number of body cells.

[Answer](#)

6. Give scientific terms for each of the following

A condition when the muscles deteriorate and the person becomes invalid.

[Answer](#)



## Short Answer Type

7. Give one significant difference between each of the following :

Growth and Development

[Answer](#)

8. Give one significant difference between each of the following :

ii. Muscle Twitch and Tetanus [Answer](#)

9. Give one significant difference between each of the following :

Heartwood and Sapwood. [Answer](#)

10. Give one significant difference between each of the following :

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11. Give one significant difference between each of the following :

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Collateral vascular bundle and Concentric vascular bundle

[Answer](#)

12. Give reason for the following

(i) Adrenaline is referred to as emergency hormone.

[Answer](#)

13. Give reason for the following

Despite availability of plenty of water, leaves of certain plants wilt during the day and recover in the evening.

[Answer](#)

14. Give reason for the following

Hybrid seeds should be raised every year.

[Answer](#)

15. Give reason for the following

The wing of a bat is said to be homologous to the wing of a bird and analogous to the wing of an insect.

[Answer](#)

16. Give reason for the following

Symptoms of deficiency of certain nutrients appear in the old leaves first.

[Answer](#)

17. Mention the most significant role of each of the following :

Fovea centralis

[Answer](#)

18. Mention the most significant role of each of the following :

Lymphocytes

[Answer](#)

19. Mention the most significant role of each of the following :

Bundle of His

[Answer](#)

20. Mention the most significant role of each of the following :

Calyptra

[Answer](#)

21. Mention the most significant role of each of the following :

Bulliform cells

[Answer](#)

22. Mention the most significant role of each of the following :

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Quiescent centre

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Earnest Hackett

**Answer** Study, Assignments, Solved Previous Year Papers . Questions and Answers. Free Forever.

24. State the best known contribution of :

Carl Landsteiner

**Answer**

25. State the best known contribution of :

Robert Koch

**Answer**

26. State the best known contribution of :

Hensen

**Answer**

### Long Answer Type

27. (a) What are guard cells? Explain their role in regulating transpiration.

(b) Explain tunica corpus theory of origin of shoot apex.

(c) Give one function and one deficiency symptom of each of the following in plants:

(i) Magnesium

(ii) Calcium

(iii) Molybdenum

**Answer**

28. Describe the development of female gametophyte in angiosperms.

**Answer**

29. Explain the mass flow hypothesis of transport of food.

**Answer**

30. Differentiate between cyclic and non-cyclic photophosphorylation.

**Answer**

31. (a) Explain in detail the digestion of carbohydrates, as the food passes through the alimentary canal.

(b) Describe step by step what happens in the different phases of the cardiac cycle in human beings.

(c) Write the effects of cytokinins on plants.

**Answer**

32. (a) Write about the chemical changes which occur during contraction of skeletal muscles.

(b) Draw a neat labelled diagram of the L.S. of a kidney.

(c) What is chloride shift ?

**Answer**

33. a) Explain how the human ear helps in hearing.

b) Briefly describe the events that occur during the proliferative phase of the menstrual cycle.

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(i) Glucocorticoids

(ii) Calcitonin

(iii) Glucagon

**Answer**

34. (a) Explain the evolution of the long neck of giraffe according to Darwin and Lamarck.

(b) Explain briefly :

(i) Environmental resistance

(ii) Albinism

(iii) Plant introduction

(iv) Palaeontology

(c) Write two uses of each of the following :

(i) Emblica officinalis

(ii) Adhatoda vasica

**Answer**

35. (a) Give four applications of tissue culture in crop improvement.

(b) What do you understand by the term population growth ? Give three ways of discouraging population growth.

(c) Define :

(i) Coacervates

(ii) Gene bank

**Answer**

36. (a) Explain the role of Rh factor in blood incompatibility.

(b) State the main morphological changes that occurred in the ancestors of modern man.

(c) Describe briefly the functions of the following :

(i) CT Scan

(ii) External prosthesis

(iii) Pacemaker

**Answer**

37. a) Explain the role of a genetic counsellor.

(b) Write the causative agent and the main symptoms of the following diseases,

(i) Poliomyelitis (ii) Typhoid

(iii) Tuberculosis (iv) Cholera

(c) State two similarities between the chromosomes of man and apex.

**Answer**