

II SEMESTER EXAMINATION 2017-18

SUBJECT: BIOLOGY

Std: XI

Marks: 70

Date: 09/04/2018

Time: 3hrs

Note: All questions in each section are compulsory.
Draw neat and labeled diagram wherever necessary.
Figures to the right indicate full marks.
Answer to every section must be started on a new page.

SECTION A

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MULTIPLE CHOICE QUESTIONS:

Q1. The body of a fungus is known as .

- a. Hypha
- b. Mycelium
- c. Rhizoid
- d. Fruiting body

Q2. The smallest gymnosperm among the following is .

- a. *Wolffia*
- b. *Zamiapygmea*
- c. *Sequoiasemperviens*
- d. *Taxodiummucronatum*

Q3. Heart is perfectly four chambered in .

- a. Snake
- b. Garden lizard
- c. Crocodile
- d. varanus

Q4. In eukaryotic cells, the chromosomes are located in .

- a. nucleus
- b. nucleolus
- c. golgi complex
- d. lysosomes

ANSWER EACH QUESTION IN ONE SENTENCE:

Q5. Name the different body divisions of cockroach.

Q6. Why is it said that vernacular names create confusion?

Q7. Which are the structural units of compound eye in cockroach?

Q8. What prevents collapsing of trachea in humans, during breathing?

SECTION B

ANSWER EACH SECTION IN SHORT:

20

- Q9. Write a note on Botanical Gardens.
- Q10. Explain the terms: (A) Osmosis (B) Plasmolysis
- Q11. Give the characteristics features that help a bird in flight.
- Q12. Draw a well labelled diagram of plant cell.
- Q13. Give the graphic representation of cell cycle. OR
Describe metaphase of mitosis.
- Q14. 'Potato is a stem and sweet potato is a root'. Justify the statement.
- Q15. State the role of carbohydrates.
- Q16. State the functions of epithelial tissue.
- Q17. Describe the histology of human lungs.
- Q18. Write a note on Apical Dominance.

SECTION C

ATTEMPT IN BRIEF:

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- Q19. Distinguish between DNA and RNA.
- Q20. Describe the different types of placentation in plants.
- Q21. What is transpiration? Give its significance.
- Q22. Describe the structure of cell organelle known as 'power house of the cell'.
- Q23. With the help of a diagram, write a note on synapse.
- Q24. Describe the external features of cockroach.
- Q25. What are the methods to break seed dormancy? OR
Explain the different phases of growth, with the help of growth curve.
- Q26. Distinguish between Mitosis and Meiosis.
- Q27. Write a note on carbon monoxide poisoning.

SECTION D

ATTEMPT THE FOLLOWING:

15

Q28. Describe the various parts of an angiospermic plant with a well labeled diagram.

OR

Give an account of various parts of a typical dicot leaf.

Q29. Give a brief account of vertebral column.

OR

Write a note on saddle joint with the help of a diagram.

Q30. Describe various types of glands associated with the digestive system.

Mention the functions of these glands.

OR

Explain the process of digestion of food in the stomach of man.