

I SEMESTER EXAM 2017-18

SUBJECT: BIOLOGY

STD: XI

MARKS: 50

DATE: 09/10/17

TIME: 2 Hrs

- Note:** 1) All questions in each section are compulsory.
2) Draw neat and labeled diagrams wherever necessary.
3) Figures to the right indicate full marks.

SECTION A

Multiple Choice Questions:

3

Q1. The smallest gymnosperm among the following is:

- | | |
|-------------------------------|------------------------------|
| a. <i>Wolffia</i> | b. <i>Zamiapygmea</i> |
| c. <i>Sequoiasempervirens</i> | d. <i>Taxodiummucronatum</i> |

Q2. Non-protein part of the conjugated protein is called .

- | | |
|---------------------|---------------|
| a. aldehyde | b. ketone |
| c. prosthetic group | d. derivative |

Q3. The body plan in which the alimentary canal has a single opening is called .

- | | |
|-------------------|---------------------|
| a. open | b. blind sac |
| c. cell aggregate | d. tube within tube |

Answer the following in one sentence:

3

Q4. What are plasmids?

Q5. Which type of tissue shows absence of intercellular substance?

Q6. What is the fungal component of a lichen called?

SECTION B

Answer each question in short

16

Q7. Distinguish between Angiosperms and Gymnosperms.

Q8. Give the characteristic features that help bird in flight.

OR

Distinguish between Reptilia and Aves.

Q9. Which major event takes place during 'S' phase of cell cycle? How will it affect the daughter cells if it fails to take place before mitosis?

OR

Describe the factors affecting enzyme activity.

Q10.a. Which organelle in a cell is called the power house of the cell?

b. Explain why their number per cell is variable depending on the physiological activities of the cell.

Q11. Give the general characters and examples of the Kingdom Plantae.

Q12. Give the role of carbohydrates.

OR

Write a note on enzyme action.

Q13. Why are skeletal muscles also called striated and voluntary muscles?

Q14. Write a short note on zoological parks.

SECTION C

Answer in brief:

18

Q15. Give the general characters of algae with two examples

Q16. Give a brief account of class Amphibia.

Q17. Give the characteristics of Connective tissue.

Q18. Complete the following table with respect to biomolecules:

Specifications	Polysaccharides	Proteins	Nucleic acids
Type of bond	_____	Peptide	_____
Building blocks	Monosaccharides	_____	_____
Example	_____	_____	DNA

Q19. Differentiate between plant cell and animal cell.

Q20. Give the significance of mitosis.

SECTION D

Answer the following:

10

Q21. With the help of a diagram, describe the general structure of a neuron.

OR

Describe glandular epithelium and the types of glands.

Q22. What is a cell cycle? Describe the phases of a cell cycle with a proper diagram.

OR

Describe metaphase of mitosis with a proper diagram.