

**O. P. JINDAL SCHOOL, SAVITRI NAGAR**  
**Half Yearly Examination (2019 – 2020)**

**Class: XI**  
**Subject: Biology**

**MM: 70**  
**Time: 3 Hrs.**

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***Fifteen Minutes Extra will be for reading the Question Paper.***

***General Instruction:-***

- (i) All questions are compulsory.*
- (ii) Questions 1 to 5 are very short answer type questions, carrying one mark each.*
- (iii) Questions 6 to 12 are short answer type questions, carrying two marks each.*
- (iv) Questions 13 to 24 are also short answer type questions, carrying three marks each.*
- (v) Questions 25 to 27 are long answer type questions, carrying five marks each.*
- (vi) There is no overall choice. However, an internal choice has been provided in some question*

**SECTION- A**

- Q1. Define aestivation in plants.
- Q2. Why are common names not employed in scientific studies?
- Q3. Where is apical meristem located in a plant ?
- Q4. The wall of human alimentary canal from oesophagus to rectum possesses four layers. Name them.
- Q5. What is Tidal Volume (TV) of a healthy person?

**SECTION- B**

- Q6. 'Bryophytes are referred to as amphibians of plant kingdom'. Justify the statement.
- Q7. (i) Explain binomial nomenclature giving an example.  
(ii) Who is known as father of taxonomy ?
- Q8. What do the terms phycobiont and mycobiont signify ?
- Q9. Differentiate between intercalary and lateral meristem.
- Q10. How important is the presence of pneumatic bones in aves?
- Q11. What are monoecious and dioecious plants?
- Q12. (i) Eyes of cockroaches are considered unique due to certain special features. Describe them.  
(ii) Mention the location of hepatic caeca in a cockroach.

**SECTION-C**

- Q13. Explain why xylem is termed as a complex tissue. Define complex tissue.

OR

How useful is the study of the nature of body cavity and coelom in the classification of animals ?

- Q14 .Write three characteristic features of Euglenoids.
- Q15. What is heterospory? Briefly comment on its significance.
- Q16. Give a brief account of digestive glands found in human.
- Q17. Give a diagrammatic representation of life cycle of angiosperm.
- Q18. Define phyllotaxy. Describe the types of phyllotaxy found in plants with diagram.
- Q19. Describe the arrangement of floral members in relation to their insertion on thalamus.
- Q20. Explain the structure of stomata with the help of a labelled diagram.
- Q21. Describe various types of simple epithelial tissues with the help of diagrams.
- Q22. "All vertebrates are chordates but all chordates are not vertebrates". Justify the statement.
- Q23 . Describe the external morphology of cockroach.
- Q24. Explain how the transport of oxygen and carbon dioxide takes in human.

#### SECTION-D

- Q25. What is Taxonomic hierarchy? Describe 7 hierarchial categories giving an example of plant / animal.

OR

On what basis are the chromosomes inside the cell classified? Explain their types with well labelled diagram.

- Q26. Explain alimentary canal of a cockroach with well labelled diagram.

OR

Describe reproductive System of a cockroach with well labelled diagram

- Q27. What is placentation? Describe various types of placentation in plants with diagram.

OR

Explain cellular sketch of T.S of a dicot stem with well labelled diagram.

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*Shast.*