

O. P. JINDAL SCHOOL, SAVITRI NAGAR
Half Yearly Examination (2018 – 2019)

Class: XI
Subject: Biology

25/9/18

MM: 70
Time: 3 Hrs.

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

1. Define aestivation in plants.
2. Why are common names not employed in scientific studies?
3. Where is apical meristem located in a plant ?
4. Define the term poikilotherms.
5. What is nymph?

SECTION- B

6. 'Bryophytes are referred to as amphibians of plant kingdom'. Justify the statement.
7. Explain binomial nomenclature giving an example.
8. What do the terms phycobiont and mycobiont signify ?
9. What is stomatal apparatus? Explain the structure of stomata with a labelled diagram.
10. How important is the presence of air bladder in pisces?
11. What are monoecious and dioecious plants?
12. What are malpighian tubules? What is its function?

SECTION-C

13. Explain why xylem is termed as a complex tissue. Define complex tissue.

OR

Give one word for the following.

- i) Blood filled cavity in arthropods
- ii) Excretory organs of an annelid
- iii) Animals having reproductive organs of both sexes

14. Write three characteristic features of Euglenoids.
15. What is heterospory? Briefly comment on its significance.
16. i) Members of which phylum are known as “the segmented worms.”
ii) Write about their body symmetry.
iii) Name the excretory units of these organisms.
17. Explain the life cycle of an angiosperm.
18. Define phyllotaxy. Describe the types of phyllotaxy found in plants.
19. Describe the arrangement of floral members in relation to their insertion on thalamus.
20. What is mesophyll tissue? How are they differentiated?
21. Describe various types of simple epithelial tissues with the help of diagrams.
22. “All vertebrates are chordates but all chordates are not vertebrates”. Justify the statement.
23. Describe the external morphology of cockroach.
24. What are taxonomical aids? Explain any two.

SECTION-D

25. What is Taxonomic hierarchy? Describe 7 hierarchical categories giving an example of plant / animal.

OR

What do you understand by “Alternation of generation”? Describe different types of life cycle exhibited by various group of plants.

26. Explain Digestive System of a cockroach with well labelled diagram.

OR

Describe Reproductive System of a cockroach with well labelled diagram

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

OR

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

25/9/17