



ST. JOSEPH STUDY CENTRE

11th STD : Quarterly Exam

BIOLOGY

Time: 2 Hrs 30 Mins / Total Marks: 70

Bio-Botany

I. Answer any 5 of the following questions:

[5 x 2 = 10]

1. Define: Species.
2. What is polynomial system?
3. What is author citation?
4. What is biosystematics?
5. What is cladistics / cladogram?
6. Write the systematic position of Fabaceae, Solanaceae and Liliaceae.

II. Answer any 2 of the following questions:

[2 x 3 = 6]

7. Compare the Androecium of Fabaceae and Solanaceae.
8. Draw the floral diagram of Fabaceae and write the floral formula.
9. What is herbarium?

III. Answer any 4 of the following questions:

[4 x 5 = 20]

10. Write on the botanical gardens and their role.
11. Mention the uses of herbarium.
12. Give an account of Bentham and Hookers classification \ Natural system of classification.
13. Give an account of the family Fabaceae.
14. Give an account of the family Liliaceae.

Note: Separate paper for botany and zoology

Bio-Zoology

I. Answer any 5 of the following questions:

[5 x 2 =10]

15. How do proteins differ from fats in their energy value and their role in the body?
16. Why are villi present in the intestine and not in the stomach?
17. What is GERD?
18. What is peristalsis?
19. What is peptic ulcer?
20. What is the caloric value of carbohydrate, proteins and fats?

II. Answer any 3 of the following questions:

[3 x 3 = 9]

21. Digestive secretions are secreted only when needed. Discuss.
22. What is obesity?
23. Write a note on teeth in man?
24. Digestive secretions are secreted only when needed. Discuss.

III. Answer any 3 of the following questions:

[3 x 5 = 15]

25. List the chemical changes that starch molecule undergoes from the time it reaches the small intestine.
26. What are the functions of liver?
27. Bile juice contains no digestive enzymes, yet it is important for digestion. Why?
28. Write a note on Jaundice and Liver cirrhosis.

-----ALL THE BEST-----

70 marks will be converted to 100 marks

Test should be written under the supervision of your parents and get the answer paper signed from them.

No corrections should be made after the test timings. We expect your honesty.

Test Papers have to be submitted after the completion of all the 4 tests.

Submission Date of Test Papers: 1st December, 2nd December, 3rd December Timings: 9 AM – 12.30 PM / 5 PM- 7 PM