



Code Number:

A**Aakash****Medical | IIT-JEE | Foundations**

Corp. Office: Aakash Educational Services Limited, 3rd Floor, Incuspaze Campus- 2, Plot No. 13,
Sector- 18, Udyog Vihar, Gurugram, Haryana - 122015

Time: 3 hrs.

Mock Test Paper for Class-XII

Max. Marks: 60

BOTANY

Roll No.

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GENERAL INSTRUCTIONS

Read the following instructions carefully and follow them:

1. The Question paper consists of section **A**, **B**, and **C**
2. Answer all the questions of **Section A**. Answer ANY **SIX** questions out of **eight** in **Section B** and answer **ANY TWO** questions out of **three** "in **Section C**.
3. In **Section A**, questions from Sl. Nos. **1** to **10** are of '**very short answer type**'. Each question carries **TWO** marks. Every answer may be limited to **5** lines. Answer all the questions at one place in the same order.
4. In **Section B**, questions from Sl. Nos. **11** to **18** are of '**short answer type**'. Each question carries **FOUR** marks. Every answer may be limited to **20** lines. Answer any **SIX** questions out of 8 questions..
5. In **Section C**, questions from Sl. Nos. **19** to **21** are of '**long answer type**'. Each question carries **EIGHT** marks. Every answer may be limited to **60** lines. Answer any **TWO** questions out of 3 questions.
6. Draw labelled diagrams, wherever necessary for questions in **Sections B** and **C**.

SECTION-A

I. **Answer ALL questions.**

10 x 2 = 20

1. What are the physical properties of water responsible for the ascent of sap through Xylem in plants?
2. What is a genophore?
3. What is point mutation? Give an example.
4. Define hydroponics?
5. What is meant capping and tailing?
6. What is down-stream processing?
7. What is green revolution? Who is regarded as father of green revolution?
8. Which two species of sugarcane were crossed for better yield?
9. What is nucleopolyhedro virus being used for now a days?
10. Name the nematode that infects the roots of tobacco plants. Name the strategy adopted to prevent this infection?

SECTION-B

II. **Answer ANY SIX questions.**

6 x 4 = 24

11. Explain the steps involved in the formation of root nodules?
12. Draw a neat labelled diagram of chloroplast.
13. Explain different types of co-factors.
14. What is ICTV? How are viruses named?
15. Give a brief account of Bt.cotton.
16. Explain the co-dominance with example?
17. Write short note on seed dormancy.
18. How many types of RNA polymerases exit in cells? Write their name and function?

SECTION-C

III. **Answer ANY TWO questions.**

2 x 8 = 16

19. Give an account of glycolysis where does it occur? What are the end products?
20. Give an account of the tools of recombinant DNA technology?
21. Write brief essay on microbes in sewage treatments?

