

MS JUNIOR COLLEGE  
Hyderabad

GUESS PAPER - 2  
INTERMEDIATE 1<sup>st</sup> YEAR  
BOTANY - I

Time: 3 hours

Max.Marks:60

**INSTRUCTIONS:**

1. Q.Nos: 1 - 10 are Very Short Answer Type. Answer them in about 30 words each. Each question carries 2 marks.
2. Q. Nos: 11 - 18 are Short Answer Type. Answer them in 75 - 100 words each. Each question carries 4 marks.
3. Q.Nos: 19 - 21 are Long Answer Type. Answer them in about 300 words each. Each question carries 8 marks.

**I. Very Short Type Questions: Answer ALL.**

[10 x 2 = 20]

1. Name two diseases caused by mycoplasmas.
2. Name the stored food materials found in Phaeophyceae and Rhodophyceae.
3. Name the gymnosperms which contain mycorrhiza and coralloid roots respectively.
4. What type of inflorescence is found in Fig trees? Why the insect Blastophaga visits the inflorescence of Fig trees?
5. What is 'Omega Taxonomy'?
6. Which part of the bacterial cell is targeted in gram staining?
7. Give one example for each of amino acid, sugar, nucleotides, and fatty acids.
8. If a tissue has at a given time 1024 cells. How many cycles of mitosis had the original parental single cell undergone.
9. Why certain fruits are called as false fruits? Name two examples of plants having false fruits?
10. Define communities? Who classified plants communities into hydrophytes, mesophytes and xerophytes?

**II. Short Type Questions: Answer any SIX.**

[6 x 4 = 24]

11. Give the salient features and importance of chrysophytes.
12. Difference between liverworts and mosses
13. Write a brief account on gametogenesis with example.
14. Describe the structure of nucleus.
15. Describe the essential floral parts of plants belonging to Liliaceae.
16. Describe the cell organelle which contains chlorophyll pigments.
17. What is the difference between lenticels and stomata?
18. What are Hydrophytes? Briefly discuss the different kinds of hydrophytes with examples.

**III. Essay Type Questions. Answer any Two:**

[2 x 8 = 16]

19. Define root modification. Explain how root is modified to perform different functions?
20. Draw the diagram of a microsporangium and label its wall layers, write briefly about the wall layers?
21. Describe the lateral structure of dorsiventral leaf with the help of labeled diagram.