

MS JUNIOR COLLEGE
Hyderabad

GUESS PAPER - 1
INTERMEDIATE IInd YEAR
BOTANY - II

Time: 3hours

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. How does guttation differ from transpiration?
2. Define hydroponics.
3. Name any 3 viruses which have RNA as the genetic material?
4. In a typical DNA molecule, the proportion of Thymine is 30% of the Nitrogen bases. Find out the percentage of other Nitrogen bases?
5. What are pleomorphic bacteria? Give an example.
6. Explain the term phenotype and genotype.
7. What is palindromic sequence?
8. What is GEAC and what are its objectives?
9. Give two example of fungi used in SCP production.
10. Why does "Swiss cheese" have big holes? Name the bacteria responsible for it.

II. Short Type Questions: Answer any SIX.

[6 x 4 = 24]

11. "Transpiration is a necessary evil". Explain.
12. Write briefly about enzyme inhibitors.
13. Tabulate any eight difference between C3 and C4 plants/cycles.
14. Write the physiological responses of Gibberellins in plants.
15. Explain the structure of T-even bacteriophages.
16. Mention the advantages of selecting pea plant for experiment by Mendel.
17. What are the differences between DNA and RNA?
18. List out the beneficial aspects of transgenic plants.

III. Essay Type Questions. Answer any Two:

[2 x 8 = 16]

19. Explain the reactions of Krebs cycle.
20. Explain briefly the various processes of recombinant DNA technology.
21. Describe the tissue culture technique and what are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes.
