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BOARD OF INTERMEDIATE EDUCATION, A.P, HYDERABAD MODEL QUESTION PAPER-BOTANY-I

Time: 3 hrs] [Max Marks: 60

SECTION - A

(10 X 2 = 20)

Answer all the questions (Very short answer type)

- 1. What is growth? What is the difference between the growth in living organisms and growth in non-living objects?
- 2. What is the principle underlining the use of cyanobacteria in agriculture fields for crop improvement?
- 3. Mention the ploidy of the following?
 - (a) Leaf cell of a moss
 - (b) PEN in a dicotyledon
 - (c) Meristen cell of monocot
 - (d) Gemma cell in Marchantia
- 4. Why certain fruits are called false fruits? Name two examples of plants having false fruits?
- 5. What is the Morphology of cup like structure in cyathium? In which family it is found?
- 6. Explain the scope and significance of 'Numerical Taxonomy'?
- 7. What are microbodies? What do they contain?
- 8. Glycine and Alanine are different with respect to one substituent on the carbon. What are the other common substituent groups?
- 9. Assume that the average duplication time of E. coli is 20 minutes. How much time will two E. coli cells take to become 32 cells ?
- 10. Climax stage is achieved quickly in secondary succession as compared to primary succession. why ?

SECTION - B

 $(4 \times 6 = 24)$

Answer any six questions (Short answer type)

- 11. Explain in brief the scope of Botany in relation to agriculture, Horticulture and medicine?
- 12. Give the salient features and importance of chrysophytes?
- 13. Give a brief account on the phases of the life cycle of an angiosperm plant?
- 14. Describe essential floral parts of plants belonging to Liliaceae?
- 15. Describe centrosome?
- 16. Though redundantly described as a resting phase, interphase does not really involve rest. Comment?
- 17. A transverse section of the trunk of a tree shows concentric rings which are known as annual rings. How are these rings formed? What is the significance of these rings?
- 18. Define plant succession. Differentiate primary and secondary successions?

SECTION - C

(2 X 8 = 16)

Answer any two questions (Long answer type)

- 19. Explain how stem is modified variously to perform different functions?
- 20. Describe the process of fertilization in angiosperms?
- 21. Describe the internal structure of dorsiventral leaf with the help of a labeled diagram?