

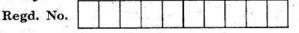
AP BOARD INTERMEDIATE 2nd YEAR PREVIOUS YEAR PAPER BOTANY- 2017

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Max. Marks : 60

Total No. of Questions- 21

Total No. of Printed Pages- 2



Part III BOTANY Paper II (English Version)

Time : 3 Hours

Note :- Read the following' instructions carefully :

- (i) 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.
- (ii) In Section A, questions from Sr. 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 these questions at one place in the same order.
- (iii) In Section B, questions from Sr. Nos. 11 to 18 are of short answer type. Each question carries FOUR marks. Every answer may be limited to 20 lines.
- (iv) In Section C questions from Sr. Nos. 19 to 21 are of 'Long Answer Type'. Each question carries EIGHT marks. Every answer may be limited to 60 lines.
- (v) Draw labelled diagrams, wherever necessary for questions in Sections B and C.

SECTION A

 $10 \times 2 = 20$

Note :- Answer ALL the questions. Each answer may be limited to 5 lines. 1. Differentiate osmosis from diffusion.

- 2. Where does the photolysis of H₂O occur ? What is its significance ?
- 3. What is Conjugation ? Who discovered it and in which organism ?
- 4. Who proposed the chromosome theory of inheritance ?
- 5. What are the components of a nucleotide ?
- 6. Write any two chemical differences between DNA and RNA.
- 7. What are molecular scissors ? Where are they obtained from ?

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8. Can a disease be detected before its symptoms appear ? Explain the principle involved.

- 9. Give two examples of fungi used in SCP production.
- 10. Name any two industrially important enzymes.

SECTION B

 $6 \times 4 = 24$

Note :- Answer any SIX questions. Each answer*may be limited to 20 lines.

- 11. "Transpiration is a necessary evil". Explain.
- 12. Explain the steps involved in the formation of root module.
- 13. Write briefly about enzyme inhibitors.
- 14. Write a note on agricultural/horticultural applications of Auxins.
- 15. Explain the structure of T-even bacteriophages.
- 16. Mention the advantages of selecting pea plant for experiment by Mendel.
- 17. Write the important features of Genetic Code.
- 18. What are some bio-safety issues concerned with genetically modified crops ?

SECTION C

 $2 \times 8 = 16$

- Note :— Answer any TWO questions. Each answer may be limited to 60 lines. 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.