

BOTANY

2017

Time: 1 Hours 45 Minutes

Marks: 32

SECTION 'B' (SHORT-ANSWER QUESTIONS)(20)

NOTE: Answer 10 questions from this section.

- 2.(i) What do you understand by the term Hydathode?
- (ii) Give any two salient features at Gymnosperm life cycle
- (iii) Name the components of DNA.
- (iv) Name the scientists known for the following discoveries.
- (a) Ladder type organization of DNA.
- (b) One gene-one enzyme hypothesis.
- (v) Differentiate between Leptotene and Zygotene.
- (vi) Define Allele.
- (vii) Draw a flow chart for ecological level of organization.
- (viii) How many types of decomposer exist in an ecosystem? Name them.
- (ix) Name the different type of Abiotic components of Ecosystem.
- (x) What will be the result of a cross between Haemophilia male and Normal female?
- (xi) Describe the function of Abscissic acid OR Ethene gas.
- (xii) Give definition of Gene pool OR Creasing over.
- (xiii) Name various aspects of Homeostasis.
- (xiv) State the law of Independent Assortment.
- (xv) Write only the names of different kinds of Asexual reproduction.
3. Attempt any five part questions.
- (i) What are Annual rings? (ii) Write five roles of Auxin.
- (iii) Write note on photoperiodism OR Vernalization.
- (iv) State Coniferous forests of Pakistan.
- (v) Describe three substages of Interphase.
- (vi) Give cross b/w Red-eyed female and White-eyed male in drosophila. (vii) Define Meristem and mention its types OR Differentiate between DNA and RNA.
- (viii) Write note on Genetic code.

SECTION 'C' (DETAILED- ANSWER QUESTIONS)

NOTE: Answer 2 question from this section(12)

4. Prove with the help of experiment that DNA is a genetic material. OR Explain Watson and Crick model of DNA

and write its replication.

5. What is Ecological succession? Describe various seral stages of Hydrosere.
6. Write Human defect disorder caused due to abnormal number of chromosomes.