

BOTANY (CC-BOT 122)

[1.45-3.45]

19/9/2017

.1 (A) Answer the following

8

1. Describe osmosis with its types and importance.
2. Role of water in plant life.
3. Write only properties of Colloidal system. Explain any three of them.

(B) Answer the following

4

1. Explain Imbibition.
2. Factors affecting diffusion.
3. Importance of plasmolysis.

Q.2 (A) Answer the following

8

1. Write internal adaptations of Hydrophytes and external adaptations of xerophytes.
2. Write life forms as described by Ronkiar. Describe any two of the given forms.
3. Explain any four qualitative characters used to study plant community.

(B) Answer the following

4

1. Explain Fidelity.
2. Draw a neat and labeled diagram of T.s of Eichhornia petiole.
3. Write external adaptations of mesophytes.

Q.3 (A) Answer the following

8

1. Explain: kinds of crossing over. Any two in detail.
2. Blood groups in human
3. Describe in detail: Incomplete linkage.

(B) Answer the following

4

1. Explain Chromosomal theory of linkage.
2. Characters of multiple alleles.
3. Write characters of polygenic inheritance.

Q.4(A) Attend the following multiple questions.(ANY FOUR)

4

1. During rainy season wooden doors are difficult for opening or closure is due to process of
A. Diffusion B. Imbibition
C. Plasmolysis D. Osmosis.
2. Diffusion of water through semipermeable membrane from dilute solution to concentrated solution is
3. Write characters of polygenic inheritance.
(A) Imbibition (B) Osmosis
(C) Plasmolysis (D) Necrosis.
3. Which of the following is rooted submerged hydrophyte.
(A) Vallisneria (B) Utricularia
(C) Ceratophyllum (D) Lotus.
4. The physical appearance is represented by _____ character.
(A) Sociability (B) Vitality.
(C) Physiognomy (D) Dominance
5. Which ratio is obtained in Bateson and Punnett experiment.
(A) 9:3:3:1 (B) 7:1:1:7
(C) 1:1:1:1 (D) 1:3:3:1
6. _____ blood group has AB antibody.
(A) A (B) B
(C) AB (D) O