

P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI

Internal Examination

B. Sc. Semester - III

[Mark : 40

8-10-2015]

Botany : CC-BOT-212

[1-30 to 3-00

Section - A

1. [A] Answer in detail. (Any Two) 8

(1) Write down the structure of water molecule and discuss its properties.

(2) What is solution ? Write different types of solution based on concentration.

(3) Write a detail note on Osmosis.

[B] Answer in short. (Any Two) 4

(1) Write down the properties of Colloidal System.

(2) What is Diffusion ?

(3) Explain the terms. Latent heat and Tyndall effect.

Section - B

2. [A] Answer in detail. (Any Two) 8

(1) Write only names of life forms of Ronkiar.
Explain Fidelity in detail.

(2) Discuss Qualitative characters of plant community.

(3) Write a detail note on external adaptation characters of hydrophytes and internal adaptation features of mesophytes.

[B] Answer in short. (Any Two) 4

(1) Internal adaptation features of xerophytes.

(2) Draw a neat and labeled diagram of sunflower leaf.

(3) Explain Cover as one of the Quantitative characters of plant community.

Section - C

3. [A] Answer in detail. (Any Two) 8

(1) Polygenic inheritance of skin color in man.

(2) Discuss coupling and Repulsion theory.

(3) Describe-Rh Blood groups.

(1)

[P.T.O.]

[B] Answer in short. (Any Two)

4

- (1) Explain incomplete linkage in brief.
- (2) Write general characters of crossing over.
- (3) Write general characters of multiple alleles.

Section - D

4. Attend the following Multiple choice questions. [Any Four] 4

- (1) Who described kernel colour in wheat as Polygenic inheritance.
(a) E.M. East (b) Hutchinson
(c) T.H. Morgan (d) H. Nilsson-Ehle
- (2) Who demonstrated experiment on *Drosophila* ?
(a) Bateson and Punnett (b) Mendel
(c) T. H. Morgan (d) Hutchinson
- (3) According to Braun-Blanquet "Scattered groups are included in which class ?
(a) Class 1 (b) Class 2
(c) Class 3 (d) Class 4
- (4) Who classified plant community on the basis of its water requirement ?
(a) Mishra (b) Hanson
(c) Pandey (d) Worming
- (5) Who declared structure of water molecule.
(a) Parkinje (b) Lavoisier
(c) Dalton (d) Brown
- (6) If 5 ml formaline is added to 95 ml water then the solution is called _____ solution.
(a) 5% formaline (b) 5 M formaline
(c) 5 N formaline (d) 5 ppm formaline