

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

**Internal Examination**

**B. Sc. Semester - III**

**[Mark : 40**

**29-9-2016]**

**Botany : CC-BOT-212**

**[2 Hours**

**1. [A] Give describes answer as directed. (any two) 8**

- (1) Describe types of solutions based on concentration.
- (2) Explain chemical structure and properties of water.
- (3) What is osmosis ? Describe types of osmosis.

**[B] Give answer as directed. (any two) 4**

- (1) Write notes on : Imbibition.
- (2) Why Tyndall phenomenon is an example of colloidal solution ?
- (3) Describe factor affecting on the rate of diffusion.

**2. [A] Give describes answer as directed. (any two) 8**

- (1) Explain external and internal ecological adaptation of hydrophytes plants.
- (2) What is life form ? Explain life form given by "Ronkier".
- (3) Describe : Qualitative characters of plant community.

**[B] Give answer as directed. (any two) 4**

- (1) Write notes on structure of community.
- (2) Why Eichhornia plant can float on pond surface : explain it.
- (3) Describe xerophytes plant : Nerium leaf T.S.

3. [A] Give describes answer as directed. (any two) 8
- (1) Explain coupling and repulsion hypothesis.
  - (2) Describe polygenic inheritance of Kernel color in wheat.
  - (3) Describe multiple alleles by Blood group and its types.
- [B] Give answer as directed. (any two) 4
- (1) Explain : Self sterility in plants.
  - (2) Write notes of characteristics of crossing over.
  - (3) Describe : chromosomal theory of linkage.
4. Give the proper answer of following questions. (any four) 4
- (1) Conductivity of pure water is \_\_\_\_\_ ohm( $\Omega$ )<sup>-1</sup> cm<sup>-1</sup>
    - (a)  $1 \times 10^{-9}$
    - (b)  $1 \times 10^{-7}$
    - (c)  $1 \times 10^{-5}$
    - (d)  $1 \times 10^{-3}$
  - (2) Who classified fidelity in five groups ?
  - (3) \_\_\_\_\_ antibody is present in blood of human, who has "O" blood group ?
  - (4) \_\_\_\_\_ factor cannot on plasmolysis reaction.
    - (a) Concentration
    - (b) Pressure
    - (c) Gravitational force
    - (d) Humidity
  - (5) \_\_\_\_\_ scientist has given information of Linkage in Maize plant.
  - (6) According to Brann Blaquant "scattered groups" are included in which class ?
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