

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

Internal Examination

B. Sc. Semester - III

[Mark : 40

7-10-2015]

Botany : CC-BOT-211

[1-30 to 3-00

Section - A

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

- (1) Discuss racemose inflorescence in detail.
- (2) Deliberate different types of placentation along with neat and labelled diagram.
- (3) There are various attachment of anther to filament. Explain it with neat and labelled diagram.

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

- (1) Explain in brief : Polychasial cyme.
- (2) Distinguish Regular flower with Irregular flower.
- (3) Explain the terms : Trimarous flower and bracts.

Section - B

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

- (1) Discuss various ages of Geological time scale in most precise form. Describe Mesozoic age in detail.
- (2) Describe the structure with neat and labelled diagram : Ovule of cycas before fertilization.
- (3) Classify Cycas and write general characters of gymnosperms.

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

- (1) Pertification fossils.
- (2) Megasporophyll of Cycas.
- (3) Sporophyll of Rhynia.

Section - C

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

- (1) Discuss function of cell membrane and its different types according to permeability.
- (2) Deliberate Cell cycle.
- (3) Write chemical structure of cell wall and its various function.

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

- (1) Draw a neat and labelled diagram of Fluid Mosaic Model.
- (2) Importance of meiosis.
- (3) Draw a neat and labelled diagram of different layers of cell wall.

Section - D

4. Attend the following Multiple choice question. (Any 4) 4

- (1) Which of the following is not an example of Hypogynous flower.
(a) Mustard (b) Hibiscus
(c) Datura (d) Rose
- (2) Which type of inflorescence is observed in Cassia fistula (Garmalo)
(a) Spike (b) Spadix
(c) Umbel (d) Raceme
- (3) Which of the following is fossil of Gymnosperm.
(a) Lygnopteris oldhamia (b) Rhynia
(c) Lepidodendron (d) Lepidostrobus
- (4) In Cycas, the pollen grains are _____ during pollination.
(a) Unicellular Haploid (b) Bicellular Haploid
(c) Tricellular Haploid (d) Unicellular Diploid
- (5) At which sub-stage of Meiosis tetrads of chromosomes are formed.
(a) Pachytene (b) Leptotene
(c) Zygotene (d) Diakinesis
- (6) Who coined the term cell wall ?
(a) Parkinje (b) Robert Brown
(c) Robert Hook (d) Robert Cook