

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

Internal Examination

B. Sc. (SEM - II)

[Mark : 40

21-3-2016]

Botany (CC-BOT - 122)

[1-30 to 3-00

SECTION - A

Attend the following multiple choice question. (Any five) 5

- (1) The Water loss through hydathodes is
(A) Transpiration (B) Guttation
(C) Photosynthesis (D) Respiration.
- (2) Ratio obtained in which of the following is 9:3:4
(A) Recessive epistasis (B) Dominant epistasis
(C) Double recessive epistasis (D) Double dominant epistasis
- (3) *Marchantia* is commonly known as _____.
(A) Moss (B) Liver worts. (C) Thorn worts (D) Cycads
- (4) Mango belongs to which family?
(A) Scitamineaceae (B) Gramineae
(C) Anacardiaceae (D) Solanaceae
- (5) The example of trifoliate compound leaf is _____.
(A) Citrus (B) Balanites (C) Aegle (D) Marsilea.
- (6) _____ of the following is example of pentastichous phyllotaxy.
(A) Hibiscus (B) Grasses
(C) *Cyperus rotundus* (D) *Quisqualis*
- (7) The scientific name of potatoe is _____.
(A) *Solanum tuberosum* (B) *Daucas carota*
(C) *Beta vulgaris* (D) *Cajanus cajan*

SECTION - B

Answer in one sentence from. (Any Five) 5

- (8) Give the ratio obtained in dominant epistasis.
- (9) Give full form of F1 generation
- (10) Function of Elaters in *Marchantia*.

- (11) Write class in which *Nephrolepis* belongs to?
- (12) What is purpose of modification of bud scales stipules in Banyan?
- (13) Write example of tripinnate compound leaf.
- (14) Write active chemical compound of maize and carrot.

SECTION - C

Attend the following precisely (Any three)

6

- (15) Why Mendel was successful in his experiment carried out on pea
- (16) Classify *Marchantia* according to nomenclature rule.
- (17) Describe pinnate incision in leaves along with example.
- (18) Describe modification of stipules along with example.
- (19) Write scientific name of 1. Clove 2. Banana 3. Sugar Beet 4. Pea

SECTION - D

Attend the following descriptively (Any four)

12

- (20) Write a note on test cross and back cross.
- (21) Write a note on incomplete dominance.
- (22) Draw a neat and labeled diagram of prothallus of *Nephrolepis*
- (23) Describe in chart form. Venation in leaf.
- (24) Write a detail note on pinnate compound leaf.
- (25) Write families and chemical constituent of cajan pea, mango, coffee

SECTION - E

Attend the following in detail (Any two)

12

- (26) Write double dominant epistasis in detail.
- (27) Sexual reproduction in *Marchantia*
- (28) Describe alternate phyllotaxy along with types, examples and Angule divergence.
- (29) Write scientific name, family, vegetative characters, chemical constituents and economic importance of
 - (i) Tea
 - (ii) Cashewnut.