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V—68—2017

FACULTY OF SCIENCE

B.Sc. (Second Year) (Third Semester) EXAMINATION

OCTOBER/NOVEMBER, 2017

(CBCS/CGPA Pattern)

BOTANY

Paper VI

(Morphology and Taxonomy of Angiosperms)

(MCQ & Theory)

(Saturday, 11-11-2017)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

- N.B. :—*
- (i) All questions are compulsory.
 - (ii) All questions carry equal marks.
 - (iii) Choose appropriate answer from MCQ.
 - (iv) Draw neat and well labelled diagrams, wherever necessary.

MCQ

1. Multiple Choice Questions :

- (i) When a single leaf arises at each node the phyllotaxy is :
 - (a) Opposite
 - (b) Whorled
 - (c) Alternate
 - (d) Opposite superposed
- (ii) The inflorescence stalk is called :
 - (a) Peduncle
 - (b) Petiole
 - (c) Pedicel
 - (d) Filament
- (iii) The ovule attached to the central axis of ovary :
 - (a) Marginal placentation
 - (b) Axile placentation
 - (c) Basal placentation
 - (d) Parietal placentation

P.T.O.

- (iv) Taxonomy includes :
- | | |
|--------------------|--------------------|
| (a) Identification | (b) Classification |
| (c) Nomenclature | (d) All of these |
- (v) The minor category is :
- | | |
|--------------|-----------|
| (a) Class | (b) Genus |
| (c) Division | (d) Order |
- (vi) The stamens of Fabaceae are :
- | | |
|-------------------|-------------------|
| (a) Diadelphous | (b) Monoadelphous |
| (c) Polyadelphous | (d) Sterile |
- (vii) Cruciform corolla is the characteristic feature of the family :
- | | |
|------------------|---------------|
| (a) Annonaceae | (b) Malvaceae |
| (c) Brassicaceae | (d) Apiaceae |
- (viii) The type of fruit in Caesalpinaceae is :
- | | |
|---------------|-------------|
| (a) Cremocarp | (b) Pod |
| (c) Drupe | (d) Siliqua |
- (ix) Botanical name of Tulsi (Holy basil) is :
- | | |
|---------------------------|------------------------------------|
| (a) <i>Ocimum sanctum</i> | (b) <i>Solanum tuberosum</i> |
| (c) <i>Capsicum annum</i> | (d) <i>Lycopersicon esculentum</i> |
- (x) The family Poaceae is also known as :
- | | |
|---------------|------------------|
| (a) Gramineae | (b) Umbelliferae |
| (c) Lamiaceae | (d) Liliaceae |

Theory

2. Describe the salient features of Bentham and Hooker's system of classification of Angiosperms and add a note on its merits and demerits.

Or

Describe in brief :

- | |
|----------------------------|
| (a) Types of compound leaf |
| (b) Binomial nomenclature. |

3. Describe the general characters of family Annonaceae. Give its floral formula and floral diagram.

Or

Write short notes on :

- (a) Structure of gynoecium (carpel)
- (b) Economic importance of Malvaceae.

4. Describe the general characters of family Asteraceae. Give its floral formula and floral diagram.

Or

Write short notes on :

- (a) Types of inflorescence
- (b) Inflorescence of Euphorbiaceae.