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**BF—70—2016**

**FACULTY OF SCIENCE**

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

**OCTOBER/NOVEMBER, 2016**

**(Revised Course)**

**BOTANY**

**Paper VI**

**(Morphology and Taxonomy of Angiosperms)**

**(MCQ + Theory)**

**(Wednesday, 19-10-2016)**

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

*Time—2 Hours*

*Maximum Marks—10+30=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 : 10

(1) 'Runner' is a modification of .....

(a) Root

(b) Stem

(c) Leaf

(d) Flower

(2) In a compound leaf, leaflets occur on the secondary axis is known as .....

(a) Unipinnate

(b) Unifoliate

(c) Tripinnate

(d) Bipinnate

(3) Engler and Prantl's system of plant classification published in .....

(a) Genera plantarum

(b) Flora Lapponica

(c) Die Naturlichen Pflanzenfamilien

(d) Species plantarum

P.T.O.

- (4) The basic unit of classification is ..... .  
 (a) Division (b) Class  
 (c) Family (d) Species
- (5) Custard apple is a type of ..... fruit.  
 (a) Simple (b) Composite  
 (c) An etaerio of berries (d) Legume
- (6) Cotton belongs to ..... .  
 (a) Fabaceae (b) Malvaceae  
 (c) Apiaceae (d) Annonaceae
- (7) Meliaceae belongs to ..... .  
 (a) Thalamiflorae (b) Disciflorae  
 (c) Calyciflorae (d) Coronarieae
- (8) Gynobasic style occurs in ..... .  
 (a) Lamiaceae (b) Asteraceae  
 (c) Poaceae (d) Liliaceae
- (9) Cyathium inflorescence is present in ..... .  
 (a) Asteraceae (b) Euphorbiaceae  
 (c) Lamiaceae (d) Poaceae
- (10) Thick succulent and mucilaginous leaf is a characteristic feature of ..... .  
 (a) *Aloe vera* (b) *Sorghum vulgare*  
 (c) *Triticum aestivum* (d) *Oryza sativa*

### Theory

2. Describe the salient features Engler and Prantl's system of classification of Angiosperms and add a note on its merits and demerits. 10

Or

Write short notes on :

- (i) Composite fruit  
 (ii) Minor categories of classification.

3. Describe the general characters of family Fabaceae. Give its floral formula and floral diagram. 10

*Or*

Write short notes on :

- (i) Types of leaf  
(ii) Flower of Brassicaceae.
4. Describe the general characters of family Solanaceae. Give its floral formula and floral diagram. 10

*Or*

Write short notes on :

- (i) Phylloclade-modification of stem  
(ii) Inflorescence of Poaceae.