

BOTANY Paper-B

(Structure Development and Reproduction in Flowering Plants – II)

Time Allowed : 3 hours

Maximum Marks : 36

Note : Attempt five questions in all. Question No. I is compulsory. Attempt four more questions selecting one from each unit. Draw labelled diagrams wherever necessary.

I (A) Fill in the blanks :

- (i) Outer young and functional part of the xylem is called
- (ii) are one internode long runners found in plants like *Pistia* to help in vegetative propagation.
- (iii) Central cap like region of inactive cells present in between the root cap and the active meristematic region of root apex is
- (iv) Tunica corpus theory was proposed by
- (v) The phenomenon where fruits are produced without fertilization is
- (vi) In condition the protoxylem lies towards centre and metaxylem towards periphery. 6×1=6

(B) Multiple Choice Questions :

- (i) Pollination by bats is called :
 - (a) Ornithophily
 - (b) Zoophily
 - (b) Hydrophily
 - (d) Chiropterophily
- (ii) Dispersal of fruits and seeds by explosive mechanisms due to inbuilt devices is :
 - (a) Anemochory
 - (b) Hydrochory
 - (c) Zoochory
 - (d) Autochory
- (iii) Cortical bundles are found in the stem of :
 - (a) *Dracaena*
 - (b) *Mirabilis*
 - (c) *Nyctanthes*
 - (d) *Boerhaavia*
- (iv) Vessels are present in :
 - (a) *Gnetum*
 - (b) *Ephedra*
 - (c) *Welwitschia*
 - (d) All of these
- (v) A vascular bundle where one tissue is completely surrounded by the other is :
 - (a) Concentric
 - (b) Collateral
 - (c) Bicollateral
 - (d) Radial

