(ii) Questions :9

\section*{Sub. Code : \\ | 0 | 3 | 5 |
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## B.A./B.Sc. (General) 4th Semester

## Examination 1047 <br> BOTANY

(Structure Development and Reproduction in Flowering Plants-II)

Paper: B
Time Allowed : 3 Hours]
[Maximum Marks: 80
Note :- Attempt five questions in all. Question No. $\mathbf{1}$ is
compulsory. Attempt four more questions selecting
one from each Unit. Draw labelled diagrams where
necessary.

1. (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 meri stematic 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 protoxylen lies towards centre and metaxylem towards periphery.
(B) Multiple choice questions:
(i) Pollination by bats is called
(a) Ornithophily
(b) Zoophily
(c) 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) Boerhaavi
(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
(vi) Pollination where pollen from anthers of one flower is transferred to the stigma of another flower on the same plant is : , I h
(a) Autogamy
(b) Homogamy
(c) Geitonogamy
(d) Xenogamy

## Unit-I

2. Describe the structure, functions and various
types of sclerenchymatous tissue.

Unit-II
4. Give an illustrated account of anomalous structure in the stem of Boerhaavia.
5. Write a brief note on Grafting. 6

Unit-III
6. Define Entomophily. How does pollination occur in the Salvia flower.
7. Describe various contrivances that ensure cross-
pollination.

Unit-IV
8. What is Endosperm ? Name and discuss development of various types of endosperm
9. Describe the development of embryo in a typical monocot plant.

