BOTANY Paper-B

(Structure Development and Reproduction in Flowering Plants-I)

		wed: 3 Hours Maximum Marks: 30
Note:	Att	empt five questions in all. Q. No. 1 is compulsory. Attempt one
	que	estion from each Unit i.e. Unit-I, II, III and Unit-IV.
1.	(a)	Biennials are
	(b)	Monocarpic and polycarpic plants are
	(c)	Orthotrichous arrangement of leaves is
die	(d)	Major difference between simple and compound leaf is
	(e)	Triple fusion is
	(f)	Function of synergids is
eger 🦖	(g)	Pneumatophores are:
1		(i) +ve geotropic respiratory roots.
		(ii) -ve geotropic respiratory roots.
		(iii) Both (i) and (ii)
		(iv) None of the above.
	(h)	Decussate type of phyllotaxy represents:
		(i) Opposite type of leaf arrangements.
		(ii) Alternate type of lead arrangements.
		(iii) Both opposite and alternate type of leaf arrangements.
	((iv) Whorl type of leaf arrangements.
	(i)	Kidney shaped stomatas can be seen in:
		(i) Dicot plants.
		(ii) Monocot plants.
	(iii) Both in dicot and monocot plants.
C) (i	iv) Gymnosperms.
O.	(j)	Flowers are:
		(i) Modified Root.
et .	(ii) Modified Shoot.
	(ii	ii) Modified Stem.

(iv) Modified Leaves.

(k) In flowering plants endosperms are usually:
(i) Haploid.
(ii) Diploid.
(iii) Triploid.
(iv) Tetraploid.
(l) Redial type of vascular arrangements can be seen in:
(i) Root.
(ii) Stem.
(iii) Leaves.
(iv) Flowers. 1×12=12
UNIT-I
2. Describe the tap root system and its various types.
3. Explain with the help of illustrations, the structure anatomical features
of storage roots.
UNIT-II
4. Write an account of various modifications of underground stems. 6
5. (a) Write a short note on Leaf Venations.
(b) Draw T.S. of Monocot Leaf. 2×3=6
UNIT-III
6. (a) Draw T.S. of Young another.
(b) Why flower is a modified shoot? $2\times 3=6$
7. Explain with the help of diagrams, the various steps in the development
of male gametrophyte in angiosperms. UNIT-IV
a > D
Discuss the various kinds of embryo sacs in angiospermis.