BOTANY - I SEMESTER IV

MARKS - 100

DURATION 3 HRS

Note:

1. All the questions are compulsory.

2. Draw neat & suitable diagrams wherever necessary.

3. Figures to the right indicate full marks.

Q.1A Choose the correct option & rewrite the statements

(10 marks)

1 produce	ascospores in an asc	us.	
a. Slime molds	b. Dimorphic fungi	c. Club fungi	d. Sac fungi
2. An example of wood	rotting fungi is		
2. An example of wood a. <i>Xylaria</i>	b. Puccinia	c. Penicillin	d. Alternaria
3. Powdery mildew fun			
a. Erysiphaceae	b. Hypocreaceae	c. Hypomycetaceae	d. Nectriaceae
4. lichen is	a pioneer in xeroser	e.	
a. Fruticose lichen	b. Foliose lichen	c. Crustose lichen	d. Leprose lichen
5 are	vascular plants.		
a. Algae	b. Fungi	c. Bryophytes	d. Pteridophytes
6. In Selaginella,	is regarded a	ns an organ of sui-gene	eris.
a. Leaf	b. Stem	c. Root	d. Khizophore
7. are pr	esent in the stem of A	Selaginella as endoder	mis.
		c. Sclerenchyma	
8. is the c			
		c. Resin duct are	
present 9. Popular dry fruit " Cl	absent	present	are present.
9. Popular dry fruit " Cl	nilgoza" is produced	by	
a. Pinus sylvestris	b. Pinus monophyll	a c. Pinus gerardia	na d. Pinus roxburghii
10. In Coniferophyta, th			
a. Anemophilous	b. Hydrophilous	c. Ornithophilous	d. Entomophilous
Q.1B Answer the follo	wing in one sentence	e	(10 marks)

- a. What is function of haustorium?
- b. What is called acervulus?
- c. Define :- Heterophyllum
- d. What is Endosporic condition?
- e. Explain the structure of Stem observed in Coniferophytes.

Q.2 Answer any two from the following

(20 marks)

- a. With the help of neat labeled diagram explain reproduction in Erysiphe.
- b. Explain the life cycle of Xylaria.
- c. Describe the structure of lichen, and give names of its three different types. What is the nature of this fungal association?
- d. Explain symptoms, causal organism, disease cycle and control measure of Late blight of Potato.

Q.3 Answer any two from the following

(20 marks)

- a. With the help of a neat labeled diagram explain the T.S. of stem in Selaginella.
- b. External Morphology and T.S. of stem in Selaginella.

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c. Enlist the different types of fossils.

d. Explain the alternation of generation in Selaginella. Add a note on external morphology of Selaginella.

Q.4 Answer any two from the following

(20 marks)

a. Enlist the general characteristics of Class Coniferophyta.

b. Explain external morphology of *Pinus* and add a note on economic importance of it.

c. Explain the T.S of needle of a *Pinus* and draw a neat labeled diagram.

d. Explain the External morphology of *Cordaites* and add a note on its T.S. of Root (*Amyelon*).

Q.5 Write short notes on (any four)

(20 marks)

a. Harmful activities of Ascomycetes.

b. Cephalodia

c. Systematic position in Rhynia.

d. Vegetative reproduction in Selaginella.

e. Germination of the Pinus Seed.

f. Explain the structure of Female Strobilus in Cordaites.