Answer Key for Botany Paper 1 Sem IV Exam - code 33002

Q.1.A	Choose the correct option from the following	10 Marks
i.	Ectoparasite	01
ii.	Ascomycetes	01
iii.	Lichen	01
iv.	Phytopthora infestans	01
v.	Branches	01
vi.	Psilophyta	01
vii.	Amber	01
viii.	Chilgoza	01
ix.	Cordiainthus	01
х.	Wind	01
Q.1.B	Answer the following in one or two sentences	10 Marks
i.	Two examples of Crustose Lichen	02
	i. Graphis	
	ii. Rhizocarpon	
	iii. Lecanoa	
	iv. Verrucaria	
	(any two of the above)	
ii.	Location and function of trabeculae in the stem of	02
	Selaginella	
	Location: older stem of <i>Selaginella</i> the endodermal	
	cells (1mark)	
	Function: is to maintain the contact between the cortex	
	and stele. (1 mark)	
iii.	Geological time scale	02
	Geological time scale is the representation of the	
	sequence of geological periods in the history of earth.	
iv.	Pycnoxylic wood	02
	The wood is more compact with less parenchyma is	
	pycnoxylic wood	
v.	Different types of shoot in <i>Pinus</i>	02
	Long shoot or branches of unlimited growth & dwarf	
	shoots or branches of limited growth.	
Q.2.	Answer any two of the following	20 Marks
i.	Sexual reproduction in Erysiphe	10
	Description 05	-
	Cleistothecium	
	Description 03	
	Diagram 02	

ii.	Asexual reproduction of Xylaria	10
	Description 05	10
	Diagram 02	
	Systematic position giving reasons 03	
iii.	Late blight of Potato	10
	Causal organism 01	10
	Symptoms 02	
	Disease cycle 05	
	Control measure 02	
iv.	V.S. of Heteromerous and homomerous types of	10
	Lichen thallus	
	Description 06	
	Diagram 04	
Q.3.	Answer any two of the following	20 Marks
i.	Lepidophyta	10
	Description 05	
	Psilophyta	
	Description 05	
ii.	External & internal structure of Selaginella leaf	10
	Description 06	
	Diagram 04	
iii.	Process of fossilization	10
	Description 05	
	Pterification	
	Description 05	
iv.	External morphology of Rhynia plant	10
	Description 04	
	Diagram 03	
	Systematic position	
	Systematic position giving reason 03	
Q.4.	Answer any two of the following	20 Marks
i.	Salient features of Coniferophyta	10
	Any 10 points	
ii.	External and internal structure of male cone of <i>Pinus</i>	10
	Description 06	
	Diagram 04	
iii.	T.S of Pinus needle	10
	Description 5	
	Diagram 03	
	Xerophytic adaptation 02	
iv.	T.S. of Cordaites leaf	10
	Description 03	
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	Diagram 02	
	T.S. of Cordaites root	
	Description 03	
	Diagram 02	
Q.5.	Write short Notes on any four	20 Marks
		(5 Marks Each)
i.	Systematic position of Erysiphe	05
	Systematic position with reasons 05	
ii.	Ecological significance of Lichen	05
	Soil formation	
	 Sensitive to air pollution 	
	 Pioneer initiators of rock vegetation 	
	Accumulation of radioactive substance	
iii.	T.S. of rhizophore of Selaginella	05
	Description 03	
	Diagram 02	
iv.	Compression	05
	Description 05	
V.	V.S. of <i>Pinus</i> ovule	05
	Description 03	
	Diagram 02	
vi.	Economic importance of Coniferophyta	05
	Any five economic importance of Coniferophyta	