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	[Time:Three Hours] SYBSc Botany Paper I [Marks: 100] Answer key Code 65236	
Q.1 A	Choose the correct option from the following	10
i.	dead man's finger	
ii.	sac fungi	
iii.	terricolous	
iv.	<i>Phytophthora infestans</i>	
v.	Lepidophyta	
vi.	absent	
vii.	2	
viii.	<i>acicular</i>	
ix.	Coniferophytes	
x.	single	
B	Answer the following in one sentence :	10
i.	Two types of ascocarps Cleistothecium and perithecium (1 mark each)	2
ii.	Plant pathology: it is a branch of science that deals with the study of nature, development and control of plant diseases. (2 marks)	2
iii.	The other name of root and seed of Cordaites Root - Amyelon (1 mark); Seed - Cardiocarpus or Cardaicarpus (1 mark)	2
iv.	Arm palisade: The cells in the mesophyll region are stellate in shape with inward projections of cell wall as arms in <i>Pinus</i> needle is called arm palisade tissue (1 mark) Function: Arm palisade tissue is present to compensate reduced leaf surface to reduce the rate of transpiration (1Mark)	2
v.	Two types of vegetative reproduction in <i>Selaginella</i> Fragmentation Stem tubers (1 mark each)	2
Q.2	Answer any two from the following:	20
i.	General characters of ascomycetes Any ten characters (1 mark each)	10
ii.	Life cycle of <i>Xylaria</i> Description 06 Schematic diagram 04	10
iii.	Powdery mildew Causal organism 01 Symptoms 02 Disease cycle 05 Control measure 02	10

2

iv.	Sexual reproduction in lichen Description 07 Diagram 3	10
Q.3	Answer any two from the following:	20
i.	Lepidophyta Description 05 Classification up to order 05	10
ii.	L.S. of strobilus of <i>Selaginella</i> Description 05 Diagram 02 Systematic position 3	10
iii.	Process of fossilization Process 05 Cast Description 05	10
iv.	External morphology of stem <i>Rhynia</i> Description 04 Diagram 03 Internal morphology of stem Description 04 Diagram 03	10
Q.4	Answer any two from the following:	20
i.	Salient features of Coniferophyta Any 10 points (1 mark each)	10
ii.	R.L.S and T.L.S of <i>Pinus</i> wood Description RLS 03 Diagram 02 Description TLS 03 Diagram 02	10
iii.	V.S. <i>Pinus</i> ovule Description 06 Diagram 04	10
iv.	Internal structure of <i>Cordaites</i> stem Description 04 Diagram 03 Systematic position with reason 03	10
Q.5	Write short notes. (Any Four)	20
i.	Cleistothecium of <i>Erysiphe</i> Description - 03 Diagram -02	5
ii.	Economic importance of lichen Any 5 uses	5
iii.	Fertilization of <i>Selaginella</i> .	5

3

	Description 3 Diagram 2	
iv.	Systematic position of <i>Rhynia</i> Systematic position with reason (5 marks)	5
v.	T.S. of <i>Pinus</i> needle. Description 3 Diagram 2	5
vi.	T.S. of <i>Cordaites</i> leaf. Description 3 Diagram 2	5