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[Time: Three Hours] SYBSc Botany Paper I [Marks: 100] Answer key Code 65239		
Q.1 A	Choose the correct option from the following	10
i.	endogenous	
ii.	cleistothecium	
iii.	fructicose	
iv.	Pteridophyte	
v.	Xanthane	
vi.	<i>Selaginella</i>	
vii.	pterified	
viii.	neck canal cell	
ix.	yellow	
x.	gum canals	
B	Answer the following in one sentence :	10
i.	fruiting body of <i>Xylaria</i> - perithecia (1 mark) the number of spores found in one ascus --- 8. (1 mark)	2
ii.	the plant disease and symptoms caused by <i>Phytophthora infestans</i> . Late blight of potato (1 mark) Symptoms: infected parts show dark brown, oval irregular water soaked area appear on leaves (1 mark)	2
iii.	Two era of geological time scale. - Cenozoic/ Mesozoic/ Paleozoic/ Precambrian (any two --- 1 mark each)	2
iv.	The types of shoot seen in <i>Pinus</i> .—branches of unlimited growth/ long shoot and branches of limited growth/ dwarf shoots (1 mark each)	2
v.	the other names of Cordiates root- Amyelon and seed - Cardiocarpus / Cardicarpus - (1 mark)	2
Q.2	Answer any two from the following:	20
i.	Sexual reproduction in <i>Xylaria</i>. Description 7 Diagram 3	10
ii.	Sexual reproduction in <i>Erysiphe</i> . Description 07 Schematic diagram 03	10
iii.	Disease cycle of Powdery mildew. Schematic diagram - 3 marks Description - 4 marks Control measure - 3 marks	10
iv.	Economic importance of Lichen - fodder, medicine, dyes, tanning, brewing, distilling, perfumery	10
Q.3	Answer any two from the following:	20
i.	Lepidophyta	10

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	Description 05 Classification up to order 05	
ii.	T.S. of rhizophore--- Description 03, Diagram 02 T.S. of stem---- Description 03, Diagram 02	10
iii.	Fossilization: The process by which plants or animals are preserved in sedimentary rock is called fossilization. (2 marks) Describe any two types of fossil studied by you. Petrification/ cast/ compression/ impression/ compaction/ amber (any two 4 marks each)	10
iv.	Asexual reproduction in <i>Rhynia</i> . -Diagram 02, Description 03 Classification 05	10
Q.4	Answer any two from the following:	20
i.	Salient features of Coniferophyta Any ten points 1 mark each	10
ii.	T.S. of <i>Pinus</i> old stem Diagram 04 Description 06	10
iii.	The male cone of <i>Pinus</i> Description 03 Diagram 2 Classification with reason 05	10
iv.	<i>Cordaites</i> Male strobilus -- Description 03, Diagram 02 Female strobilus --- Description 03, Diagram 02	10
Q.5	Write short notes. (Any Four)	20
i.	Systematic position of <i>Xylaria</i> . With reason	5
ii.	Classification on lichen based on habitat.	5
iii.	T.S. of <i>Selaginella</i> leaf--Description 3 marks, Diagram 2	5
iv.	T.S. of <i>Rhynia</i> stem ---- Description 3, Diagram 2	5
v.	Structure of <i>Pinus</i> seed ----- Description 3, Diagram 2	5
vi.	Systematic position of <i>Cordaites</i> with reason	5