QP Code: 77065

	(2½ Hours)	[Total Marks : 75
N.B.	 (1) All questions are compulsory. (2) Draw neat labelled diagrams wherever neces (3) All questions carry equal marks. 	sary.
. Attempt	any two of the following:	15
(a)	Give an account of Pentoxylon stem studied by	y you.
(b)	Describe the internal structure of <i>Lepidodendr</i> studied by you.	on stem
(c)	Give an account of the reproductive structures	of
	Lyginopteris.	
· (d)	Discuss the contribution of Birbal Sahni in the	field of
	Paleobotany.	
2. Attempt	any two of the following questions:	15
_	Give the classification, distinguishing characte formula of the family Cucurbitaceae.	rs, and floral
(b)		natic position
(c)	Discuss the merits and demerits of Bentham a system of classification.	nd Hooker's
(d)	Discuss the importance of anatomy in relation	to taxonomy.
3. Attempt	any two of the following questions:	
(a)	What is anomalous secondary growth? Describetem of Bignonia.	be it in the 15
(b)	Describe the anomalous secondary growth in Achyranthes.	the stem of
(c)		vo types of
(d)		ic, and

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4. Attempt any two of the following questions:

15

- (a) Describe various types of exine stratifications in pollen grains studied by you.
- (b) Describe the role of palynology in relation to Honey Industry.
- (c) What is Pollen viability? Discuss various causes for the loss of Pollen viability.
- (d) Describe in brief the NPC system of clasification in pollen grains of Angiosperms.
- 5. Write short notes on any three of the following:

15

- (a) Female reproductive structure of Pentoxylon
- (b) Spikelet of Graminae
- (c) Economic importance of Solanaceae
- (d) Anomocytic stomata
- (e) Methods of short-term pollen storage
- (f) Anomalous secondary growth in stem of Aristolochia

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