(Turn over)

PG CBCS

M.Sc. Semester-IV Examination, 2019 BOTANY

PAPER: BOT-495

PRACTICAL (Special Paper)

(ANGIOPERMS TAXONOMY & MOLECULAR SYSTEMATICS)
Full Marks: 50
Time: 6 Hours

1. Draw, label, dissect, and describe the supplied specimen A and identify the specimen upto species (with the help of local/regional flora or book). 12 Leave your preparations. (Drawings-3; labeling-1; description-4; dissection- 1+1.5 [including preparation and display], identification: family 0.5 [have to write without the help of flora/book], genus 0.5, species 0.5). 2. Make a comparative account of both plesiomorphic and apomorphic characters (at least 6) to represent advancements of features of the supplied specimens B, C, and D [Drawings and description not required]. Mention which one is most advanced than that of others. 6 6 3. Perform the works as specified by the following: a) Make a suitable preparation of the samples E and F and comment on these. 3+3Or b) Comment on the specimens E and F. 3 + 3Or c) Compare the surface ornamentations of the pollen grains of specimens E and F with microscopic drawings (in part or portion). 3+3Or d) Compare the stomatal structures and types of the specimens E and F with drawings. 3+32 4. Identify the specimens G and H.

5.	Make a list of the species of Cassia L./ Bauhinia L./ Blummea	DC. Found
	in West Bengal.	4
	Or	
	Make a list of the genera of the family Menispermaceae/	Cruciferae/
	Anacardiaceae represented with species in West Bengal with	the help of
	relevant literature/ book.	4
6.	Laboratory note book/ Practical performances.	5
7.	Field report/ Field note book.	5
8.	Submission of herbarium specimens/ slides, etc.	5
9.	Viva-voce	5
