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FIFTH SEMESTER (CUFYUGP) DEGREE EXAMINATION, NOVEMBER 2026

BOTANY

BOT5CJ302 ANGIOSPERM MORPHOLOGY, SYSTEMATICS & PLANT RESOURCES

2024 Admission onwards

Maximum Time :2 Hours **Maximum Marks :70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)

1	Find the morphological characters of root.
2	Define a cyathium inflorescence. Name the plant family characterized by it.
3	What is the main objective of the Botanical Survey of India (BSI)?
4	Differentiate between an artificial system and a phylogenetic system of classification
5	Find the demerits of classifications in systematic.
6	What are computer-assisted (intkey) taxonomic keys?
7	Differentiate between the Biological Species Concept and the Morphological Species Concept.
8	Write the principles of ICN.
9	Write the binomial, family, and useful part of Green gram
10	What are petro-crops? Give two examples mentioned in your syllabus.

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)

11	Explain the types of racemose inflorescences with examples and diagrams.
12	Discuss the various modifications of leaves for specialized functions.
13	Write a brief account on the types of taxonomic literature.
14	Brief account on Linnaeus's, Bentham & Hooker's, and the APG IV systems of classification.
15	Identify the vegetative and floral characteristics of the subfamily Caesalpinoideae.
16	Explain floral structure and economic importance of the subfamily Asteroideae (Asteraceae).
17	Analyze the processing, extraction method, and useful products obtained from Latex (Rubber)
18	Classify the economic plants based on their uses in the plant resource.

Section C

Answer any ONE .Each Question carries 10 marks (1x10=10 Marks)

19	Elaborate on the role author citation, effective and valid publication, rejection of names, principle of priority and its limitations of ICBN.
20	Detailed account on Artificial, Natural, and Phylogenetic systems of classification. Mention their respective merits and demerits.