

B.Sc. Semester - 2 (CBCS) Examination
March/April – 2026 (New Course)
BOTANY (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1(A)	Answer in very short:	(04)
	(1) Define: Habitat	
	(2) State the types of palmately compound leaf.	
	(3) What is reticulate venation?	
	(4) Give examples for “Adnate” type of stipule.	
Que.1(B)	Answer in brief: (Any One)	(03)
	(1) Give the functions and Characteristics of stem.	
	(2) Explain: Types of root.	
Que.1(C)	Answer in detail: (Any One)	(07)
	(1) What is phyllotaxy? Describe opposite phyllotaxy.	
	(2) Explain: Type of pinnately compound leaf.	
Que.2(A)	Answer in very short:	(04)
	(1) Which type of special inflorescence is observed in genus Ficus?	
	(2) What is zygomorphic flower?	
	(3) Give the term, if tepals are bright in colour and resemble with petal.	
	(4) Give example of berry fruits.	
Que.2(B)	Answer in brief: (Any One)	(03)
	(1) Discuss: Function of carpel.	
	(2) Define: Vaxillary astivation with diagram and example.	
Que.2(C)	Answer in detail: (Any One)	(07)
	(1) Describe: Various types of placentation.	
	(2) Explain with an examples: Simple dry fruits.	
Que.3(A)	Answer in very short:	(04)
	(1) Which family having monodelphous stamen?	
	(2) Which family having segitate anther?	
	(3) Which family plants have caryopsis type of fruit?	
	(4) Give the vernacular names of <i>Abutilon indicum</i> .	
Que.3(B)	Answer in brief: (Any One)	(03)
	(1) Write salient features of Red oleander (Apocynaceae) Family.	
	(2) State the merits of Bentham and Hookers classification system.	
Que.3(C)	Answer in detail: (Any One)	(07)
	(1) Describe: The characteristic of Malvaceae family in detail.	
	(2) Describe: The characteristic of Nyctaginaceae family in detail.	
Que.4(A)	Answer in very short:	(04)
	(1) Full form of SEM.	
	(2) The power of objective is 20X and the power of eyepiece is 15X what is the magnification of that microscope?	
	(3) Give the name of electrodes used in pH meter.	
	(4) Which type of paper is used in paper chromatography?	
Que.4(B)	Answer in brief: (Any One)	(03)
	(1) Write notes on: Nutrient media.	
	(2) Give the Principle of colorimeter.	

- Que.4(C) Answer in detail: (Any One) (07)
- (1) Describe the structure of light microscope.
 - (2) Discuss principal and method for paper chromatography technique.
- Que.5(A) Answer in very short: (04)
- (1) Which enzyme unwind the DNA strands?
 - (2) What do you mean by “P” and “A” site on Ribosomes?
 - (3) Define: Transcription.
 - (4) Give the genotype ratio of monohybrid cross.
- Que.5(B) Answer in brief: (Any One) (03)
- (1) Discuss: The difference between Cofactors and Coenzyme.
 - (2) Draw the pathway of β -oxidation.
- Que.5(C) Answer in detail: (Any One) (07)
- (1) Describe: The process of translation in protein synthesis.
 - (2) Explain: Mechanism of Enzyme Action.
