

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov - 2025 (NEW COURSE)
Biology of Seed Plants(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) What is modern taxonomy?
- (2) True or False: Taxonomic group belonging to any one of the taxonomic Categories is known as taxon.
- (3) Fill in the blank: _____ is the one specimen or other element designated by the author as the nomenclature type.
- (4) Who is known as father of taxonomy?

Que.1(B) Answer in brief (Any One) (03)

- (1) What is monophyletic origin of angiosperm? Discuss shortly.
- (2) Describe merits of Bentham and Hookers classification system.

Que.1(C) Answer in detail (Any One) (07)

- (1) Discuss the classification system of Bentham and Hookers.
- (2) Write down detail note on concept of family.

Que.2(A) Answer in very short. (04)

- (1) Which family known as vegetable family?
- (2) Give the name of family which you studied and come under calyciflorae series.
- (3) How many carpels and ovules present in capparidaceae.
- (4) State the types of inflorescence in Asteraceae family.

Que.2(B) Answer in brief (Any One) (03)

- (1) Describe distinguishing characters of Anonaceae family.
- (2) Describe distinguishing characters of Asteraceae family.

Que.2(C) Answer in detail (Any One) (07)

- (1) Describe floral characteristics, floral diagram and floral formula of Solanaceae family.
- (2) Describe floral characteristics, floral diagram and floral formula of Amaranthaceae family.

Que.3(A) Answer in very short. (04)

- (1) Which family posses gynandrophore?
- (2) Fill in the blank: The sepals of solanaceae family is _____
- (3) Give the botanical name of kantado dabho.
- (4) Write the classification of cyperaceae family.

Que.3(B) Answer in brief (Any One) (03)

- (1) Scientific and local names of for vegetable plants of the family solanaceae.
- (2) Write an account of floral structure of convolvulaceae family.

- Que.3(C) Answer in detail (Any One) (07)**
- (1) Give distinguishing features of family of Tecoma genus and give its floral formula and floral diagram.
 - (2) Describe floral characteristics, floral diagram and floral formula of polygonaceae family with examples of plants.
- Que.4(B) Answer in brief (Any One) (03)**
- (1) Write a short note on polyembryony.
 - (2) State the functions of endosperm.
- Que.4(C) Answer in detail (Any One) (07)**
- (1) Discuss the embryo development in dicotyledons.
 - (2) Describe embryo culture methods and its applications.
- Que.5(A) Answer in very short. (04)**
- (1) True or False: Chemically, vegetable oils are triglycerides of complex organic fatty acids.
 - (2) Name botanical name, family and source of coir.
 - (3) Which of the Indian states are leading producers of the tobacco?
 - (4) Name a non-alcoholic beverage which is commonly consumed in Indian families.
- Que.5(B) Answer in brief (Any One) (03)**
- (1) Describe the morphology of the useful parts of cotton.
 - (2) Discuss morphological characters of coffee plant.
- Que.5(C) Answer in detail (Any One) (07)**
- (1) Describe any two oil seeds plants with its economic value.
 - (2) What is curing of Tobacco? Discuss for common methods of Tobacco curing.
