

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov - 2022 (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.
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Q.1 Answer the following questions as per instruction.

(A) Answer in very short. 04

- (1) What is modern taxonomy?
- (2) Who is known as father of taxonomy?
- (3) True or False: Taxonomic group belonging to any one of the taxonomic Categories is known As taxon.
- (4) Fill in the blank: _____ is the one specimen or other element designated by the author As the nomenclature type.

(B) Answer in brief (Any One) 03

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

(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.

Q.2 Answer the following questions as per instruction.

(A) Answer in very short. 04

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

(B) Answer in brief (Any One) 03

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

(C) Answer in detail (Any One) 07

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

Q.3 Answer the following questions as per instruction.

(A) Answer in very short. 04

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

- (B) Answer in brief (Any One) 03
- (1) Write an account of floral structure of convolvulaceae family.
 - (2) Scientific and local names of for vegetable plants of the family solanaceae.
- (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.
- Q.4 Answer the following questions as per instruction.
- (A) Answer in very short. 04
- (1) Give one common example which shows mosaic endosperm.
 - (2) Fill in the blank: When more than one embryo is present in a fertilized Ovule, this condition is known as_____
 - (3) Write the one major application of embryo culture.
 - (4) True or False: In monocots the cotyledon occupies the tip of the embryonal axis.
- (B) Answer in brief (Any One) 03
- (1) Write a short note on polyembryony.
 - (2) State the functions of endosperm.
- (C) Answer in detail (Any One) 07
- (1) Describe embryo culture methods and its applications.
 - (2) Discuss the embryo development in dicotyledons.
- Q.5 Answer the following questions as per instruction.
- (A) Answer in very short. 04
- (1) True or False: Chemically, vegetable oils are triglycerides of complex organic fatty acids.
 - (2) Name a non-alcoholic beverage which is commonly consumed in Indian families.
 - (3) Name botanical name, family and source of coir.
 - (4) Which of the Indian states are leading producers of the tobacco?
- (B) Answer in brief (Any One) 03
- (1) Discuss morphological characters of coffee plant.
 - (2) Describe the morphology of the useful parts of cotton.
- (C) Answer in detail (Any One) 07
- (1) What is curing of Tobacco? Discuss for common methods of Tobacco curing.
 - (2) Describe any two oil seeds plants with its economic value.
