

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (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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- Que-1 (A) Answer in very short. (04)
- 1) What do you mean by taxon?
 - 2) Who is known as father of taxonomy?
 - 3) Fill in the blank: _____ is the one specimen or other element designated by the author as the nomenclature type
 - 4) Who was the first to give concept of species?
- Que-1 (B) Answer in brief (Any One). (03)
- 1) Describe merits of Bentham and Hookers classification system.
 - 2) Give conceptual understanding of taxon genus.
- Que-1 (C) Answer in detail (Any One) (07)
- 1) Discuss the classification system of Bentham and Hookers.
 - 2) Explain the concept of “species” and “Families”.
- Que-2 (A) Answer in very short. (04)
- 1) Hairy Pappus is a characteristics of family?
 - 2) How many carpels and ovules present in capparidaceae?
 - 3) Give the name of family which you studied and come under calyciflorae series.
 - 4) Give the technical term: Stemens united throughout their whole length.
- Que-2 (B) Answer in brief (Any One) (03)
- 1) Describe distinguishing characters of Canaceae family.
 - 2) Describe distinguishing characters of Bignoneaceae family.
- Que-2 (C) Answer in detail (Any One) (07)
- 1) Describe floral characteristics, floral diagram and floral formula of Anonaceae family.
 - 2) Describe floral characteristics, floral diagram and floral formula of Solanaceae family.
- Que-3 (A) Answer in very short. (04)
- 1) Fill in the blanks: Convolvulaceae family comes under _____ series?
 - 2) Give the botanical name of kantado dabho.
 - 3) Write the classification of cyperaceae family.
 - 4) True or false: The sapales of solanaceae family is Persistent.
- Que-3 (B) (B) Answer in brief (Any One). (03)
- 1) Write an account of floral structure of Lythraceae family.
 - 2) Write an account of floral structure of Asteraceae family.

- Que-3 (C) Answer in detail (Any One) (07)
- 1) Describe floral characteristics, floral diagram and floral formula of Capparidaceae family with examples of plants.
 - 2) Describe floral characteristics, floral diagram and floral formula of polygonaceae family with examples of plants.
- Que-4 (A) Answer in very short. (04)
- 1) Which type of ovule present in Heliathus.
 - 2) True or False: In monocots the cotyledon occupies the tip of the embryonal axis.
 - 3) Give the common example which shows mosaic endosperm.
 - 4) Write the one major application of embryo culture
- Que-4 (B) (B) Answer in brief (Any One) (03)
- 1) State the functions of endosperm
 - 2) Describe shortly types of embryo.
- Que-4 (C) Answer in detail (Any One) (07)
- 1) Discuss the embryo development in dicotyledons.
 - 2) What is polyembryony? Describe various types of polyembryony in angiosperms.
- Que-5 (A) Answer in very short. (04)
- 1) To which family the coffee plant belongs?
 - 2) True or False: Chemically, vegetable oils are triglycerides of complex organic fatty acids.
 - 3) Which of the Indian states are leading producers of the tobacco?
 - 4) Give the botanical name, family and source of coir.
- Que-5 (B) Answer in brief (Any One) (03)
- 1) Discuss economic importance of tea plant.
 - 2) Write note on: Coir
- Que-5 (C) Answer in detail (Any One) (07)
- 1) Describe any two oil seeds plants with its economic value.
 - 2) Describe cultivation and harvesting of Tobacco.
