

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov - 2023 (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. Who known as father of taxonomy?
 2. What do you mean by taxon?
 3. Who was the first to give concept of species?
 4. True or False: The angiosperms most likely originated much before the cretaceous period.
- Que.1(B) Answer in brief. (any one) (03)
1. What do you mean by species? Discuss the concept of species of at various levels.
 2. Describe merits of Bentham and Hookers classification system.
- Que.1(C) Answer in detail. (any one) (07)
1. Discuss the origin of angiosperms.
 2. Describe the classification system of Bentham and Hookers.
- Que.2(A) Answer in very short. (04)
1. Name a family of the order Paritales with tetramerous flower.
 2. Fill in the blanks: The flower are _____ in annonaceae.
 3. True or False: In Cucurbitaceae the androecium is syngenesious.
 4. State the special type of inflorescence in moraceae family.
- Que.2(B) Answer in brief. (any one) (03)
1. Write an account of floral structure of canaceae family.
 2. Give floral diagram and floral formula to distinguish polygonaceae.
- Que.2(C) Answer in detail. (any one) (07)
1. Describe floral characteristics, floral diagram and floral formula of Asclepidaceae.
 2. Give distinguishing features of family of Tecoma genus and give its floral formula and floral diagram.
- Que.3(A) Answer in very short. (04)
1. Fill in the blanks: Hairy pappus is a Characteristics of _____ family.
 2. Give two characters commonly observed in culms of cuperaceae.
 3. Give the series of Amaranthaceae family.
 4. Name a plant belonging to family Tiliaceae which yields an important bast fibre.
- Que.3(B) Answer in brief. (any one) (03)
1. Write an account of floral structure of Solanaceae family.
 2. Scientific and local names of four vegetable plants of the family Cucurbitaceae.
- Que.3(C) Answer in detail. (any one) (07)
1. Describe the floral characters, floral diagram and floral formula of Cypraceae family.
 2. Describe floral characteristics, floral diagram and floral formula of Convolvalaceae family.

- Que.4(A) Answer in very short. (04)
1. Name a plant in which endosperm is watery in nature.
 2. True or False: polyembryony was first reported by Antony van Leeuwenhoek in orange.
 3. Fill in the blank: In monocot embryo radicle is produced by _____
 4. What is a Embryo culture?
- Que.4(B) Answer in brief. (any one) (03)
1. State the functions of endosperm.
 2. Describe embryo culture methods briefly.
- Que.4(C) Answer in detail. (any one) (07)
1. Describe the developed of typical dicotyledonous embryo giving suitable diagrams.
 2. What is polyembryony? Describe various types of polyembryony in angiosperms.
- Que.5(A) Answer in very short. (04)
1. True or False: Chemically, vegetable oils are triglycerides of complex organic fatty acids.
 2. To which family the coffee plant belongs?
 3. Define the term “fumitories”.
 4. Fill in the blanks: sunnhemp is a _____ fibre obtained from the stems of _____
- Que.5(B) Answer in brief. (any one) (03)
1. Write in brief the various steps in processing of tea.
 2. Write note on: Coir.
- Que.5(C) Answer in detail. (any one) (07)
1. Write source, extraction and use of fatty oils with special reference to groundnut and mustard oils.
 2. Name the two important fibre yielding plants of India. Mention the source of fibre major growing regions of these crops in India.
