

B.Sc. Semester - 5 (CBCS) Examination
Oct/Nov.- 2024 (Old 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 any one question in detail. (07)
1. Reproductive structure of Ephedra.
 2. Reproductive structure of Gnetum.
- Que.1(B) Shortly answer any one question. (04)
1. Describe the T.S. of Gnetum Leaf.
 2. Describe the T.S. of Ephedra Young Stem.
- Que.1(C) Answer the following question very shortly. (Any Three) (03)
1. In which forest region Gnetum mostly Occurs?
 2. Which species of Ephedra is exists in dry region of our Country.
 3. How many fertile bracts are present in the female cone of Ephedra?
 4. Fill in the blanks: The fused cup like bracts in the cone of Gnetum are called_____ .
 5. True or false: Endosperm in Gnetum and Ephedra is Triploid.
- Que.2(A) Answer any one question in detail. (07)
1. Write down detail note on concept of Family.
 2. Describe the Bentham and Hookers Classification System in detail.
- Que.2(B) shortly answer any one question. (04)
1. Give the merits of Bentham and Hooker Classification System.
 2. Give the demerits of Bentham and Hooker Classification System.
- Que.2(C) Answer the following question very shortly. (Any Three) (03)
1. Who is known as father of Taxonomy?
 2. Define: Taxonomy.
 3. Who was the first to give concept of Species?
 4. True or false: Taxonomic group belonging to any one of the Taxonomic.
 5. Categories is known as Taxon.
 6. Fill in the blank: _____ is the one Specimen or other Element.
 7. Designated by the author as the Nomenclature Type.
- Que.3(A) Answer any one question in detail. (07)
1. Describe Convolvulaceae Family characteristics with floral diagram, floral formula and two examples of Plants.
 2. Describe Bignoniaceae Family characteristics with floral diagram, floral formula and two examples of Plants.
- Que.3(B) Shortly answer any one question. (04)
1. Describe distinguishing characters of Rosaceae Family.
 2. Describe distinguishing characters of Tiliaceae Family.

- Que.3(C) Answer the following question very shortly. (Any Three) (03)
1. Fill in the blanks: The sepals of Solanaceae Family is _____
 2. Give the scientific name of Zipto Plant.
 3. How many carpels and ovules present in Capparidaceae?
 4. Give the name of family which you studied and come under Calyciflorae Series.
 5. State the types of inflorescence in Asteraceae Family.
- Que.4(A) Answer any one question in detail. (07)
1. Describe Polygonaceae Family characteristics with floral diagram, floral formula and two examples of Plants.
 2. Describe Solanaceae Family characteristics with floral diagram, floral formula and two examples of Plants.
- Que.4(B) Shortly answer any one question. (04)
1. Describe distinguishing characters of Amaranthaceae Family.
 2. Describe distinguishing characters of Cypraceae Family.
- Que.4(C) Answer the following question very shortly. (Any Three) (03)
1. Write the classification of Cyparaceae Family.
 2. Give the Botanical name of Kantado Dabho.
 3. Give the series and order name of Amaranthaceae Family.
 4. Explain Parianth with reference to Canaceae Family.
 5. Fill in the blank: Hairy pappus is a characteristics of _____ Family.
- Que.5(A) Answer any one question in detail. (07)
1. Discuss the embryo development in Dicotyledons.
 2. Discuss the embryo development in Monocotyledons.
- Que.5(B) Shortly answer any one question. (04)
1. State the functions of Endosperm.
 2. State the characters of Pollen Grain.
- Que.5(C) Answer the following question very shortly. (Any Three) (03)
1. True or false: In monocots the cotyledon occupies the tip of the Embryonal Exis.
 2. Give one common example which shows Mosaic Endosperm.
 3. Give the full form of PEMC.
 4. In angiosperm, each pollen grain produces two male cells. What do these sperms do in the Fertilization?
 5. Give only names of any two factors affecting Pollen Grain Germination.
