

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-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.

Q – 1(A) Answer very shortly (04)

- (1) The theory of “Coniferalean ancestry of Amentiferae” was proposed by Eichler, Engler and Prantl etc. – True or False?
- (2) Define “Taxon”
- (3) Define “Genus”
- (4) The concept of species was proposed by _____

Q – 1(B) Answer shortly (Any one) (03)

- (1) With reference to evolution point of view, which distinctive features of Angiosperm as opposed to Gymnosperm.
- (2) Discuss the Concept of families.

Q – 1(C) Answer in detail (any one) (07)

- (1) Describe the Classification systems of Bentham and Hooker
- (2) Describe the Classification systems of Engler and Prantal

Q – 2(A) Answer very shortly (04)

- (1) $\oplus \overline{\text{K}}_3 \text{C}_{3+3} \text{A}_\alpha \text{G}_\alpha$ or (α) This floral formula is for which family?
- (2) In Capparis decidua plant spines are modification of _____?
- (3) The tetramorous calyx - corolla and indefinite stamens with bicarpellary superior ovary are the characteristics of _____ family?
- (4) Momardica charantia is cultivated for its fruits used as vegetable, its fruit juice is good against treatment _____

Q – 2(B) Answer shortly (Any one) (03)

- (1) Describe the floral characters of Lythraceae family
- (2) Give the common plants with Botanical names belongs to Tiliaceae family

Q – 2(C) Answer in detail (Any one) (07)

- (1) Describe the Bignoneaceae family with examples, floral formula and floral diagram.
- (2) Describe the Canaceae family with examples, floral formula and floral diagram.

Q – 3(A) Answer very shortly (04)

- (1) The floral corona is characteristics of _____ family?
- (2) Ray florets and Disc florets are present in _____ family?
- (3) Leaves are reduce to scales in the parasitic plant _____ comes under the family _____?
- (4) In Ipomoea biloba, species biloba stance for _____?

Q – 3(B) Answer shortly (Any one) (03)

- (1) Discuss the key characteristics of Solanaceae family.
- (2) Give the common plants with Botanical names belongs to Amaranthaceae family

Q – 3(C) Answer in detail (Any one) (07)

- (1) Describe the Moraceae family with examples, floral formula and floral diagram.
- (2) Describe the Cypraceae family with examples, floral formula and floral diagram.

- Q – 4(A) Answer very shortly (04)
- (1) The ploidy of endosperm in tetraploidy plant is _____?
 - (2) Give the names of angiospermes families which do not produces endosperm.
 - (3) Holobial type of endosperm is developed in monocot plant – True or False
 - (4) Define Polyembryony
- Q – 4(B) Answer shortly (Any One) (03)
- (1) Shotly describe the types of embryo
 - (2) Give an application of Embryo culture
- Q – 4(C) Answer in detail (Any one) (07)
- (1) Discuss Embryo development in monocotyledons
 - (2) Discuss Embryo development in dicotyledonos
- Q – 5(A) Answer very shortly (04)
- (1) Which volatile oil and an alkaloid present in tea.
 - (2) Coffee is obtained from _____
 - (3) Tobacco plants is the member of _____ family?
 - (4) Which fiber yielding plnts also comes under narcotics
- Q – 5(B) Answer shortly (Any one) (03)
- (1) Write a short note on “Tea” as an economic plant.
 - (2) Write a short note on “Tobacco” as an economic plant.
- Q – 5(C) Answer in detail (Any one) (07)
- (1) Disuss about Oil seeds plants
 - (2) Describe Fiber yielding plants
