

**F.Y.B.SC. SEM – II (CBCS - 2016 Course) : SUMMER - 2019**  
**SUBJECT: BOTANY: PLANT DIVERSITY & UTILIZATION OF PLANTS-II**

Day: Saturday  
Date: 04/05/2019

**S-2019-0817**

Time: 03.00 P.M. To 06.00 P.M  
Max. Marks: 60

**N.B:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.

**Q.1 A)** Choose correct answer from each of the following and rewrite the sentence **(06)**

- 1) Endosperm is generally ----- and formed after fertilization
  - a) triploid
  - b) haploid
  - c) diploid
  - d) all of these
- 2) The ----- is differentiated into style, stigma and ovary
  - a) stamen
  - b) thalamus
  - c) carpel
  - d) Peduncle
- 3) The binomial names are ----- throughout the world
  - a) epidemic
  - b) endemic
  - c) uniform
  - d) None of these
- 4) ----- type of placentation in family Malvaceae
  - a) basal
  - b) axil
  - c) marginal
  - d) central
- 5) *Dracena* is angiospermic plant belong to family ---
  - a) Rubiaceae
  - b) Liliaceae
  - c) Brassicaceae
  - d) Malvaceae
- 6) ----- Leaves are medicinally effective in all sorts of coughs and bronchitis
  - a) *Neem*
  - b) *Tinospora*
  - c) *Adulsa*
  - d) None of them

**B)** Attempt **ANY THREE** of the following: **(06)**

- a) Give floral formulae and floral diagram of family Papilionaceae
- b) Give classification of *Pinus* with reasons
- c) Enlists industrial products of *Ginkgo biloba* which is used in medicine
- d) Give diagnostic characters of family Brassicaceae

**Q.2** Attempt **ANY TWO** of the following: **(12)**

- a) Give any two evolutionary significance of Gymnosperms
- b) Describe male cone of *Pinus*
- c) What is binomial nomenclature? Give its advantages

**Q.3** Attempt **ANY TWO** of the following: **(12)**

- a) Describe female cone of *Pinus*
- b) Mention any two economic importance of plants with their uses from following families i) Rubiaceae ii) Malvaceae
- c) Give distinguishing characters of family Papilionaceae and enlist any two economic important plants

**Q.4** Attempt **ANY TWO** of the following: **(12)**

- a) Give important characters and classification of Gymnosperms
- b) Describe fruit of Brassicaceae and Papilionaceae
- c) Explain in brief schematic representation of alternation of generation in *Pinus*

**Q.5** Attempt **ANY TWO** of the following: **(12)**

- a) Comment on International code of Binomial nomenclature (ICBN)
- b) Give internal characters of needle in *Pinus*
- c) Explain any three uses of *neem* and *Tinospora* in medicine