

F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : WINTER - 2017

SUBJECT : BOTANY : PLANT DIVERSITY & UTILIZATION OF PLANTS – II

Day : Wednesday  
Date : 01/11/2017

Time : 03.00 PM TO 06.00 PM  
Max. Marks : 60

W-2017-0560

N.B.:

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

Q.1 A) Choose correct answer from each of the following and rewrite the sentence: [06]

- i) Monoadelphous stamens are in family \_\_\_\_\_.  
a) Papilionaceae    b) Malvacene    c) Rubiaceae    d) Brassicaceae
- ii) Angiosperms are \_\_\_\_\_.  
a) Naked seeded plants    c) Spore bearing plants  
b) Fruit bearing plants    d) Leaf bearing plants
- iii) In *Ginkgo* the leaves are \_\_\_\_\_.  
a) Lobed    b) Dissected    c) Pinnate    d) None of these
- iv) Neembin industrial products is prepared from \_\_\_\_\_.  
a) Neem    b) Adulsa    c) Tinospora    d) None of these
- v) Winged pollen grains are present in \_\_\_\_\_.  
a) *Cycas*    b) *Pinus*    c) *Gnetum*    d) *Ginkgo*
- vi) \_\_\_\_\_ plant is known as maiden hair tree.  
a) *Ginkgo*    b) *Pinus*    c) *Cycas*    d) *Gnetum*

B) Answer the following: [06]

- i) Give any two salient features of Angiosperms.
- ii) Give floral formulae of Rubiaceae.
- iii) Write any two important features of Gymnosperms.
- iv) Give classification of *Pinus*.
- v) Give any one example from Coniferales.
- vi) Give any two salient features of Cycadales.

Q.2 Attempt ANY TWO of the following: [12]

- a) Describe siliqua and legume fruits.
- b) Describe L.S. of male cone in *Pinus*.
- c) Write various industrial products of *Tinospora*.

P.T.O.

**Q.3** Attempt **ANY TWO** of the following: **[12]**

- a) Give an account of diagnostic characters of family Brassicaceae and Papilionaceae.
- b) Give an account of important characters and classification of Gnetales.
- c) Explain industrial products of *Ginkgo biloba*.

**Q.4** Attempt **ANY TWO** of the following: **[12]**

- a) Distinguish between Cycadales and Coniferales.
- b) Give the various products of neem for human health.
- c) Write a note on International Code of Botanical Nomenclature (ICBN).

**Q.5** Attempt **ANY TWO** of the following: **[12]**

- a) Give the classification and economic importance of Malvaceae and Liliaceae.
- b) Explain structure of female cone in *Pinus*.
- c) Write in short Bentham and Hooker's system of classification.

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