

F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : SUMMER - 2018
SUBJECT : BOTANY : PLANT DIVERSITY & UTILIZATION OF PLANTS – II

Day : **Friday** Time : **03.00 PM TO 06.00 PM**
Date : **20/04/2018** **S-2018-0638** Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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Q.1 A) Choose correct answer from each of the following and rewrite the sentence: [06]

- i) A short hand description of flower is known as _____.
a) Floral diagram c) Floral morphology
b) Floral formulae d) None of these
- ii) In Papilionaceae _____ type of fruit is present.
a) Nut b) Berry c) Legume d) Drupe
- iii) Fertilization takes place in _____.
a) Embryo b) Plumule c) Embryo sac d) Ovary
- iv) Botanical name of neem is _____.
a) *Melia azadirach* c) *Mangifera indica*
b) *Azadirachta indica* d) None of these
- v) Gymnosperms are _____ plants.
a) Fruit bearing c) Spore bearing
b) Naked seeded d) None of these
- vi) Pinus belongs to order _____.
a) Cordaitales b) Ginkgoales c) Coniferales d) Gnetales

B) Answer the following: [06]

- i) Give classification of Brassicaceae.
- ii) Write important characters of Angiosperms.
- iii) What is function of calyx and corolla?
- iv) Give floral formulae of family Rubiaceae.
- v) Define floral formulae used in family.
- vi) Give any two characters of Gymnosperms.

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

- a) Describe Bentham and Hooker's system of classification.
- b) Describe T.S. of *Pinus* needle.
- c) Explain various industrial products of *Adulsa*.

P.T.O.

- Q.3** Attempt **ANY TWO** of the following: [12]
- a) Describe economic importance of Liliaceae and Papilionaceae.
 - b) Discuss important characters and classification of Cycadales.
 - c) Write in short industrial products of *Ginkgo*.
- Q.4** Attempt **ANY TWO** of the following: [12]
- a) Distinguish between Gnetales and Ginkgoales.
 - b) Write the uses of *Tinospora* for human health.
 - c) Describe monoadelphous and diadelphous stamen with suitable examples.
- Q.5** Attempt **ANY TWO** of the following: [12]
- a) Give an account of classification and diagnostic characters of Malvaceae and Rubiaceae.
 - b) Explain L.S. of male cone in *Pinus*.
 - c) Give an account of salient features of the International Code of Botanical Nomenclature (ICBN).

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