



M 9760



Reg. No. :

Name :

V Semester B.Sc. Degree (CCSS – Reg./Suppl./Imp.)
Examination, November 2015
CORE COURSE IN BOTANY/PLANT SCIENCE
5B06 BOT/PLS : Diversity of life – 3 : Angiosperm Systematics,
Morphology and Utility of Plants
(2012 Admn. Onwards)

Time : 3 Hours

Total Weightage : 30

SECTION – A

1. Choose the correct answer :

- i) Erect stem in Poaceae
 - a) Pedicel
 - b) Culm
 - c) Rachis
 - d) Peduncle
- ii) Axis of a compound leaf
 - a) Bract
 - b) Bracteole
 - c) Lodicule
 - d) Rachis
- iii) Custard apple family
 - a) Anonaceae
 - b) Rutaceae
 - c) Anacardiaceae
 - d) Apiaceae
- iv) Who put forward the phylogenetic system of classification ?
 - a) Engler
 - b) Hutchinson
 - c) Bentham
 - d) Linnaeus

2. State **true** or **false** :

- i) Ovary is oblique in Acanthaceae.
- ii) Placentation is superficial in Nymphaeaceae.
- iii) The Kew Garden is located in Chandigarh.
- iv) Flowers are pentamerous in Liliaceae.

3. Fill in the blanks :

- i) Gynobasic style is seen in _____
- ii) Binomial of clove _____
- iii) _____ is a parasitic plant in Convolvulaceae.
- iv) Epicalyx is a characteristic of _____

P.T.O.



4. Rearrange column **B** and **C** to match column **A**.

A	B	C
Unisexual	Latex	Asclepiadaceae
Didynamous stamens	Gynostegium	Orchidaceae
Epiphytic	Aromatic smell	Lamiaceae
Corona	Resupination	Euphorbiaceae

5. Answer in **one** word or **one** sentence :

- Morphologically useful part in cinnamon.
- Fruit in Asteraceae.
- Binomial of Chakkarakolli.
- Name a fiber obtained from the secondary phloem.

(5×1=5)

SECTION – B

Answer **any four**.

Differentiate the following. **Each** carries a weightage of 1.

- Aggregate fruit and multiple fruit.
- Holotype and Lectotype.
- Calyx in Malvaceae and Asteraceae.
- Artificial and natural systems of plant classification.
- Spike and Spadix.
- Axile and free central placentation.

(4×1=4)

SECTION – C

Short answer questions. Answer **any five**. **Each** carries a weightage of 1.

- Give the vegetative characters of Papilionaceae.
- What is meant by author citation ?
- What is binomial nomenclature ?



15. Give the binomials of the millets you have studied.

16. Name the types of aestivation.

17. Define monographs.

18. Describe the Gynoecium of Rutaceae.

(5×1=5)

SECTION – D

Short answer questions. Answer **any six**. **Each** carries a weightage of 2.

- Write the binomial, family and useful part and uses of any three spices you have studied.
- Mention any six major herbaria.
- Write notes on taxonomic literature.
- Write how molecular data can serve as a tool in taxonomic studies.
- What do you know about APG II classification ?
- Write notes on rule of priority.
- Explain the floral characters of Zingiberaceae.
- What are botanic gardens ? Name five gardens in India.

(6×2=12)

SECTION – E

Essay questions. Answer **any one** of the following. Weightage of 4.

- With the aid of suitable sketches describe the different types of inflorescence you have studied.
- Explain characteristic features of a monocot family that is significant for food crops.
- Enumerate the diagnostic features of family Orchidaceae. Add a note on its advanced characters.

(1×4=4)