

CCE(P) - 2015  
BOTANY

KTM-05-XV

**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

Subject Code :

0 5

Test Booklet No. :

00659

## TEST BOOKLET

### BOTANY

Time Allowed : 2 (Two) Hours

Full Marks : 200

#### INSTRUCTIONS

1. The name of the Subject, Roll Number as mentioned in the Admission Certificate, Test Booklet No. and Subject Code shall be written legibly and correctly in the space provided on the Answer Sheet with black ball pen.
2. **Space provided for Series in the Answer Sheet is not applicable for Optional Subject. So the space shall be left blank.**
3. All questions carry equal marks. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet.
4. No candidate shall be admitted to the Examination Hall/Room 20 minutes after commencement of distribution of the paper. The Supervisor of the Examination Hall/Room will be the time-keeper and his/her decision in this regard is final.
5. No candidate shall leave the Examination Hall/Room without prior permission of the Supervisor/Invigilator. No candidate shall be permitted to hand over his/her Answer Sheet and leave the Examination Hall/Room before expiry of the full time allotted for each paper.
6. No Mobile Phone, Pager, etc., are allowed to be carried inside the Examination Hall/Room by the candidates. Any Mobile Phone, Pager, etc., found in possession of the candidate inside the Examination Hall/Room, even if on off mode, shall be liable for confiscation.
7. No candidate shall have in his/her possession inside the Examination Hall/Room any book, notebook or loose paper, except his/her Admission Certificate and other connected paper permitted by the Commission.
8. Complete silence must be observed in the Examination Hall/Room. No candidate shall copy from the paper of any other candidate, or permit his/her own paper to be copied, or give, or attempt to give, or obtain, or attempt to obtain irregular assistance of any kind.
9. After you have completed filling in all your responses on the Answer Sheet and the Examination has concluded, you should hand over to the Invigilator *only the Answer Sheet*. You are permitted to take away with you the Test Booklet.
10. Violation of any of the above Rules will render the candidate liable to expulsion from the Examination Hall/Room and disqualification from the Examination, and according to the nature and gravity of his/her offence, he/she may be debarred from future Examinations and Interviews conducted by the Commission for appointment to Government Service.
11. Smoking inside the Examination Hall/Room is strictly prohibited.
12. **This Test Booklet contains one sheet (two pages) for Rough Work at the end.**

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[ No. of Questions : 100 ]

SEAL

1. Which of the following does not develop from tap root system?

- (A) Napiform root
- (B) Conical root
- (C) Fusiform root
- (D) Moniliform root

5. Diadelphous stamens are characteristic of

- (A) Malvaceae
- (B) Poaceae
- (C) Fabaceae
- (D) Brassicaceae

2. Cladodes are produced by

- (A) *Opuntia*
- (B) *Asparagus*
- (C) *Cocoloba*
- (D) *Euphorbia*

6. Caudex type of stem is present in

- (A) coconut
- (B) cocoa
- (C) neem
- (D) bamboo

3. The adventitious root system is usually

- (A) surface feeder
- (B) subsurface feeder
- (C) deep feeder
- (D) very deep feeder

7. *Mentha* produces

- (A) runner
- (B) sucker
- (C) stolon
- (D) offset

4. The rootless plant is

- (A) *Utricularia*
- (B) *Viscum*
- (C) *Drosera*
- (D) *Nepenthes*

8. Hydrophily occurs in

- (A) *Vallisneria*
- (B) *Poinsettia*
- (C) *Bombax*
- (D) *Salvia*

9. Thorns are
- modified stem structures
  - modified leaf parts
  - superficial outgrowths of stem
  - hard and stiff plant parts
10. In dichogamy
- anthers are sterile whereas ovules are fertile
  - ovules are sterile whereas anthers are fertile
  - pollen and stigma of the flower mature at different times
  - pollen and stigma of the flower mature at the same time
11. Endosperm of angiosperms results after fertilization from
- synergids
  - secondary nucleus
  - antipodal cells
  - egg
12. The mode of arrangement of leaves on the stem and its branches is called
- phyllode
  - phyllotaxy
  - cladode
  - phylloclade
13. Verticillaster inflorescence is found in
- Amaranthus*
  - Achyranthus*
  - Acalypha*
  - sacred basil
14. The rose is
- hypogynous
  - perigynous
  - epigynous
  - half-perigynous
15. Seeds in a mature ovary are developed from
- embryo
  - embryo sac
  - ovule
  - endosperm
16. Self-pollination in flowers which never open up in its life span is known as
- autogamy
  - homogamy
  - cleistogamy
  - alogamy

17. In pomegranate, the fruit is known as

- (A) balausta
- (B) pepo
- (C) amphisarca
- (D) hesperidium

18. The cell theory was proposed by

- (A) Schleiden and Schwann
- (B) Darwin and Wallace
- (C) Mendel and Morgan
- (D) Watson and Crick

19. Ribosomes are centre for

- (A) respiration
- (B) protein synthesis
- (C) photosynthesis
- (D) lipid synthesis

20. Tonoplast is a differentially permeable membrane that encloses the

- (A) cytoplasm
- (B) nucleus
- (C) vacuole
- (D) mitochondria

21. Beauty of *Bougainvillea* flower is because of

- (A) calyxes
- (B) bracts
- (C) sepals
- (D) petals

22. Endosperm is absent in the seeds of

- (A) gram
- (B) cumin
- (C) orchid
- (D) castor

23. The 'eyes' of potato tubers are

- (A) shoot buds
- (B) flower buds
- (C) root buds
- (D) axillary buds

24. The plant with most durable wood is

- (A) hollong
- (B) sissou
- (C) sal
- (D) teak

