

**TDC CBCS 2nd Semester (PASS) BOTANY
PRACTICAL PAPER**

Assignment Topics for paper BOT DSE/GE 202

TOTAL MARKS = 30(25 Marks assignment + 5 Marks attendance)

1. Write **any one**

- a) Principles and Rules (ICN)
- b) Important Herbaria and Botanical Gardens of India and World
- c) Biogeochemical cycling including carbon, nitrogen and phosphorus cycle.

TDC CBCS 2nd Semester (Honours) Practical Examination, 2020

BOTANY

(2nd Semester)

Course No: BOTHCC-203

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write any two from the following questions 13 X 2= 26
- (a) Write in details about the sexual and asexual stage of *Rhizopus* with diagram.
 - (b) The sexual and asexual stage of *Aspergillus* or *Penicillium*. Draw the diagram of each stage.
 - (c) Describe the growth forms of lichens. Write the thallus and reproductive structures of lichens (Soerdia and Apothecium).
 - (d) Draw the diagram nicely and write the characteristics of different types of Mycorrhizae.
 - (e) Write in details about the TMV and Early blight of potato with their diagram.
2. Attendance in class. 4

TDC CBCS 2nd Semester (Honours) Practical Examination, 2020

BOTANY

(2nd Semester)

Course No: BOTHCC-204

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write any two from the following questions 13 X 2= 26
- (a) Write in details the microsporophyll and megasporophyll of *Selaginella* and draw the diagram.
 - (b) Description of Male and female cones of *Pinus* with diagram.
 - (c) Draw the diagram of Antheridiophore and Archegoniophore (vertical section) of *Marchantia* and write their characteristics.
 - (d) Write the morphology of *Gnetum* (male and female cone) with diagram.
 - (e) Describe the thallus structure of *Riccia* with diagram.
2. Attendance in class. 4

TDC CBCS 4th Semester (Honours) Practical Examination, 2020

BOTANY

(4th Semester)

Course No: BOTHCC-404

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write any two from the following questions 13 X 2= 26
- (A) How genomic DNA isolated from bacteria.
 - (B) Write in details with diagram the DNA replication mechanism.
 - (C) How DNA isolated from plant material.
 - (D) Describe nucleic acid as genetic material with example of any one experiment.
 - (E) Write the structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II with diagram.
2. Attendance in class. 4

TDC CBCS 4th Semester (Honours) Practical Examination, 2020

BOTANY

(4th Semester)

Course No: BOTHCC-405

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write any two from the following questions 13 X 2= 26
- (F) Write the morphological adaptation of hydrophytes and xerophytes.
- (G) Draw the diagram of soil thermometer, rain gauge, and anemometer and lux meter. Comment on each equipment.
- (H) How organic matters of soils separated by Walkley and Black rapid titration method.
- (I) Describe in details that how soil texture can be studied by sieve analysis.
- (J) Write the biotic interaction of stem parasite (*Cuscuta*) and root parasite (*Orobancha*).
2. Attendance in class. 4

TDC CBCS 4th Semester (Honours) Practical Examination, 2020

BOTANY

(4th Semester)

Course No: BOTHCC-406

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write the description, V. S. flower, and section of ovary, floral diagram, floral formulae and systematic position of any two families according to Bentham and Hooker's system of classification. 13 X 2 = 26

- (a) Ranunculaceae
- (b) Brassicaceae
- (c) Asteraceae
- (d) Solanaceae
- (e) Lamiaceae
- (f) Poaceae

2. Attendance in class. 4

TDC CBCS 4th Semester (Pass) Practical Examination, 2020

BOTANY

(4th Semester)

Course No: BOTDSC/GEC-402

(Practical)

Full Marks: 30

Pass Marks: 12

1. Write any two from the following questions 13 X 2= 26
- a) Determination of osmotic potential of plant cell sap by plasmolytic method.
 - b) Write the effect of light intensity and bicarbonate concentration on O₂ evolution in photosynthesis.
 - c) Effect of auxins on rooting.
 - d) Write in details about the Hill reaction.
 - e) Respiration in plants with special reference to root.
 - f) How amino acids are separated by using paper chromatography method.
2. Attendance in the class. 4