

UG-A-1189 BCHEA-02X/ BBOTA-21X
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U.G. DEGREE EXAMINATION –
JULY, 2022.

Chemistry / Botany

(From CY – 2020 onwards)

Second Year

ANIMAL DIVERSITY

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any **THREE** questions out of Five questions in
100 words.

All questions carry equal marks.

Write short notes on:

1. Radiata
2. Medusa
3. Green Glands
4. Lateral line sense organ
5. Diastema

PART B — (3 × 7 = 21 marks)

Answer any THREE questions out of Five questions in
200 words.

All questions carry equal marks

6. What are the general characteristic features of Phylum Arthropoda?
7. What is conjugation? Describe the process of conjugation in Paramecium.
8. Describe the digestive system of Prawn.
9. Write about the pulmonary respiration of frog.
10. Give a brief notes on air sacs of pigeon.

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions out of Seven questions in
500 words.

All questions carry equal marks.

11. Classify chordate upto classes with suitable examples.
12. Describe the excretory system of earthworm.
13. Explain the water vascular system of sea star.

14. Outline the digestive system of shark.
 15. Write about the urinogenital system of Rabbit.
 16. Describe the structure of medusa with neat diagram.
 17. Describe the structure of calotes brain with a neat diagram.
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U.G. DEGREE EXAMINATION - JULY 2022

Botany

(From CY – 2020 onwards)

Second Year

PLANT TAXONOMY AND ECONOMIC BOTANY

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any **THREE** questions out of **FIVE** questions in
100 words

All questions carry equal marks

1. Compound leaf explain
2. Binomial nomenclature - define
3. Floral structure of lamiaceae — describe
4. Give an account on Arecaceae
5. Give an account on Cultural practices

PART B — (3 × 7 = 21 marks)

Answer any THREE questions out of FIVE questions in
200 words.

All questions carry equal marks

6. Explain root modification with diagram
7. Write Natural classification
8. Write about Brassicaceae family
9. Give floral structure of Liliaceae
10. Write notes on ecological important crops

PART C — (4 × 10 = 40 marks)

Answer any FOUR questions out of SEVEN questions in
500 words.

All questions carry equal marks.

11. Write about Flower structure and types
12. Give an account on Fruit classification
13. Write Bentham and Hooker Classification
14. Describe the family Fabaceae
15. Narrate the Characteristics of family Poaceae
16. Give detailed account on origin of crops
17. Describe (a) Numerical taxonomy, (b) Cladistics

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U.G. DEGREE EXAMINATION - JULY 2022

Botany

(From CY - 2020 onwards)

Second Year

PLANT ANATOMY AND EMBRYOLOGY

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any three questions out of five questions in 100
words

All questions carry equal marks

1. Apical meristem
2. Xylem and phloem
3. Leaf primordia
4. Bisporic embryo sac
5. Endosperm

PART B — (3 × 7 = 21 marks)

Answer any three questions out of five questions in 200 words

All questions carry equal marks

6. Describe the structure of cell wall
7. Write an essay on primary anatomical structure of monocot roots
8. Explain the types of nodal anatomy
9. Write critical notes on apomixis
10. Discuss the types of endosperm and haustoria

PART C — (4 × 10 = 40 marks)

Answer any Four questions out of Seven questions in 500 words.

All questions carry equal marks.

11. With the help of a labelled sketch describe the anatomy of grass leaf
12. Enumerate brief account on tissues with suitable diagram
13. What is fertilization? Explain in detail.

14. Describe the development of female gametophyte
 15. Discuss about the vascular bundle and its types
 16. Discuss the various types of embryo sacs you studied
 17. Enumerate brief account on embryo development stages with suitable diagram
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