

**UG-689**

**BBOT-11**

**B.Sc. DEGREE EXAMINATION –  
JUNE, 2018.**

**First Year**

**Botany**

**PLANT DIVERSITY – 1**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE only.**

1. Write the general characteristic features of algae.
2. Explain the role of algae in agriculture and medical industry.
3. Describe the asexual reproduction in fungi.
4. Bringout the important characteristic features of bryophytes.
5. Discuss the ecological and agricultural role of bryophytes.

6. Narrate the general characters of bacteria.
7. What is plant pathology? Explain the significances of plant diseases.
8. Give symptoms of fungal diseases in plants.

PART B — (5 × 10 = 50 marks)

Answer any FIVE only.

9. Listout the characters of blue green algae and brown algae with suitable examples.
10. Explain the life cycle of *Volvox*.
11. Give the outline classification of fungi as given by Ainsworth (1971).
12. Write short notes on: (a) *Mucor* (b) Lichens.
13. Write an essay about *Anthoceros*.
14. Explain the structure of bacteria and virus with suitable diagram.
15. Explain the lytic life cycle of virus.
16. Write an essay about buncy top of banana.

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**BBOT-12**

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JUNE, 2018.**

**First Year**

**Botany**

**PLANT DIVERSITY — II**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. Enumerate the general features of pteridophytes.
2. List out the differences between homosporous and heterosporous.
3. Write short account on Rhizophores.
4. Describe the structure of Marsilea Sporophyte.
5. Bring out the xerophytic features of Equisetum.
6. Write short account on cycas leaves.
7. With labelled sketch describe pinus male cone.
8. Write short account on diversification of land plants.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Write an essay on vacular systems in pteridophytes.
10. Explain the internal structure of psilotum stem.
11. Write detailed account on lycopodium prothallus.
12. Describe the external morphology of pinus.
13. Write an essay on general characters of Gymnosperms.
14. With labelled diagram explain male reproductive structures in cycas.
15. Write an essay on classification of fossil.
16. Write a detailed account on external and internal structures of Rhynia.

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B.Sc. DEGREE EXAMINATION – JUNE, 2018.

First Year

Allied Chemistry

GENERAL CHEMISTRY

Time : 3 hours

Maximum marks : 75

SECTION A — (3 × 5 = 15 marks)

Answer any THREE questions.

1. What are primary and secondary standards in the volumetric analysis? Given an example for each.
2. Write short note on column chromatography and its applications.
3. What are the difference between homogeneous and heterogeneous catalysis?
4. How carbohydrates are classified?
5. What are the general precautions for avoiding lab accidents?

SECTION B — (4 × 15 = 60 marks)

Answer any FOUR questions.

6. (a) What is rule of eight and Lewis symbols? (8)  
(b) Write short notes on Hydrogen bond. (7)
7. (a) What are nucleophiles and electrophiles?  
Explain with example. (7)  
(b) Write any two reactions of aldehydes. (8)
8. (a) Explain positive and negative catalyst with  
suitable example. (7)  
(b) Write any two methods of preparation of  
polystyrene. (8)
9. (a) What are the uses of Chloramine T and  
Iodoform? (8)  
(b) Define anaesthetics and antipyretics. (7)
10. Write short notes on  
(a) Air Pollution and its method of control. (8)  
(b) Radioactive pollution and its method of  
prevention. (7)