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**NB—12—2023**

**FACULTY OF SCIENCE**

**B.Sc. (First Year) (First Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**BIOTECHNOLOGY**

**(New Course)**

**Paper—(CCBT—2A)**

**(Basic Bioscience)**

**(Monday, 04-12-2023)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

**N.B. :—** (i) *All questions are compulsory.*

(ii) *Draw a well labelled diagram wherever necessary.*

1. Describe Whittaker's five kingdom system in detail. 15

*Or*

(a) Describe prokaryotic cell in detail. 8

(b) Describe prebiological chemical evolution in detail. 7

2. What is flower ? Describe parts of flower with their functions. 15

*Or*

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- (a) Describe types of fruit in detail. 8
- (b) Write a note on seed. 7
3. Describe female reproductive cycle with hormones. 15
- Or*
- (a) Write a note on Apiculture. 8
- (b) Write a note on Sericulture. 7
4. Write characteristics of fungus and explain reproduction of fungus with spore types. 15
- Or*
- (a) Prevention of fungal growth. 8
- (b) Explain ultra structure of typical fungal. 7
5. Write notes on (any *three*) : 15
- (i) Eukaryotic cell
- (ii) Photoperiodism
- (iii) Lactation
- (iv) Effect of Environment on Growth of Fungus
- (v) Vermiculture.

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