

This question paper contains 2 printed pages]

**GD—15—2023**

**FACULTY OF SCIENCE**

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

**APRIL/MAY, 2023**

**(New Course)**

**BIOTECHNOLOGY**

**CCBT – 2H**

**(Basic Bioscience)**

**(Tuesday, 25-4-2023)**

**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. Explain Diversity of Living world. 15

*Or*

(a) Write a note on prokaryotic cell. 8

(b) Write a note on eukaryotic cell. 7

2. Explain inflorescence with types and special types of inflorescence. 15

*Or*

(a) Describe flower with their parts. 8

(b) Write a note on seed. 7

WT

( 2 )

GD—15—2023

3. Describe gametogenesis in detail. 15

*Or*

(a) Write a note on Embryo transplantation. 8

(b) Write a note on Vermiculture. 7

4. Explain nutrition and reproduction of fungi. 15

*Or*

(a) Describe classification of fungi. 8

(b) Write a note on effect of environment on growth. 7

5. Write notes on (any *three*) : 3×5=15

(a) Whittaker's five kingdom system

(b) Type fruit

(c) Poultry farming

(d) General characters of fungi

(e) Parthenocarpy.

GD—15—2023

2

This question paper contains 3 printed pages]

**GD—01—2023**

**FACULTY OF SCIENCE**

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

**APRIL/MAY, 2023**

**(New Course)**

**BIOTECHNOLOGY**

**Paper AECBT-IA**

**(Functional English)**

**(Wednesday, 19-4-2023)**

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

*Time—3 Hours*

*Maximum Marks—75*

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

*(ii) All questions carry equal marks.*

1. What is a Morpheme ? Define Free and Bound morphemes with examples. 15

*Or*

(a) Discuss Affixation in detail. 7

(b) State morphological analysis of : 8

(i) Technical

(ii) Multicultural

(iii) Responsibility

(iv) Baby sitter.

2. Define group discussion and state its importance. 15

P.T.O.

WT

( 2 )

GD—01—2023

Or

- (a) What is a Phrase ? Explain functions of adjective phrase. 7
- (b) Discuss importance of role playing. 8
3. What is Seminar ? How to give effective seminar ? 15

Or

- (a) Spot the errors and rewrite *correct* sentences : 7
- (i) There we went to the good restaurant.
- (ii) She is a M.Sc. student.
- (iii) Mumbai has many traffic.
- (iv) Each of the boys have been given a pen.
- (v) Ten dollars are a reasonable price.
- (vi) Many peoples have lost jobs in Covid-19.
- (vii) The child put many sand into his pocket.
- (b) Do as directed : 8
- (1 to 4 : Change the voice) :
- (i) Krish found three hundred rupees.
- (ii) Collect all notes.
- (iii) Have they manufactured one lakh cars ?
- (iv) The robbers were arrested.

(5 to 8 : Change the narration) :

- (v) John said to me, "I shall help you."
- (vi) "Press the fire-Alarm," said the woman.
- (vii) Captain said to me, "Bravo, you have played well."
- (viii) "Where do you stay ?" The boy asked Rajesh.

4. Write an application for the post of 'Research Analyst' to Alex J.D., HR manager Limford Biotech, Pune and attach your CV with it. 15

Or

- (a) Mention steps to be followed in writing Business Report. 7
  - (b) Write an essay on "Importance of Sport in our Life". 8
5. Write short notes on any *three* : 3 × 5 = 15
- (a) Abbreviations and Acronyms
  - (b) Noun phrase
  - (c) Uses of Articles
  - (d) Quantifiers
  - (e) Steps involved in informal letter.

This question paper contains 2 printed pages]

**GD—08—2023**

**FACULTY OF SCIENCE**

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

**APRIL/MAY, 2023**

**(New Course)**

**BIOTECHNOLOGY**

**(Introduction to Biotechnology)**

**(Friday, 21-4-2023)**

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

*Time—3 Hours*

*Maximum Marks—75*

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

*(ii) Each question carries equal marks.*

*(iii) Draw neat diagram wherever necessary.*

1. What is Biotechnology ? Describe in detail historical overview of Biotechnology. 15

*Or*

(a) Explain in brief plant tissue culture. 8

(b) Write a brief note on Biofertilizers. 7

2. What is stem cell ? Describe in detail types of stem cell. 15

*Or*

(a) Describe in detail Antigen-Antibody interactions. 8

(b) Explain in brief Hybridoma technology. 7

WT

( 2 )

GD—08—2023

3. Describe in detail cheese making. 15

*Or*

(a) What are enzymes ? Explain in detail enzymes. 8

(b) Explain in detail wine production. 7

4. Describe in detail waste water treatment. 15

*Or*

(a) Biogas. 8

(b) Composting. 7

5. Write short notes on (any *three*) : 3×5=15

(a) Biopesticides

(b) Genetic counselling

(c) Ethanol production

(d) Biodiversity

(e) Bioremediation.

GD—08—2023

2

This question paper contains 2 printed pages]

**GD—08—2023**

**FACULTY OF SCIENCE**

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

**APRIL/MAY, 2023**

**(New Course)**

**BIOTECHNOLOGY**

**(Introduction to Biotechnology)**

**(Friday, 21-4-2023)**

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

*Time—3 Hours*

*Maximum Marks—75*

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

*(ii) Each question carries equal marks.*

*(iii) Draw neat diagram wherever necessary.*

1. What is Biotechnology ? Describe in detail historical overview of Biotechnology. 15

*Or*

(a) Explain in brief plant tissue culture. 8

(b) Write a brief note on Biofertilizers. 7

2. What is stem cell ? Describe in detail types of stem cell. 15

*Or*

(a) Describe in detail Antigen-Antibody interactions. 8

(b) Explain in brief Hybridoma technology. 7



WT

( 2 )

GD—08—2023

3. Describe in detail cheese making. 15

*Or*

(a) What are enzymes ? Explain in detail enzymes. 8

(b) Explain in detail wine production. 7

4. Describe in detail waste water treatment. 15

*Or*

(a) Biogas. 8

(b) Composting. 7

5. Write short notes on (any *three*) : 3×5=15

(a) Biopesticides

(b) Genetic counselling

(c) Ethanol production

(d) Biodiversity

(e) Bioremediation.

GD—08—2023

2