

BLDE (DEEMED TO BE UNIVERSITY)

June -2023.

B.Sc. in Biotechnology

[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - I (Food Biotechnology)

QP CODE: 8575

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain in detail the role of biotechnology in the food industry.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What are fermented foods? Types of fermented foods
3. Write a note on fermented dairy products.
4. Explain food preserves using chemicals.
5. Write a note on food additives and flavoring agents.
6. Importance of bacteria in food.
7. What is food spoilage? Explain briefly.
8. Write a note on food poisoning.
9. What are essential and non-essential amino acids?
10. What are the benefits of fermented foods?

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Write a short note on Aflatoxins and Ochratoxins.
12. What are different types of fermented foods?
13. What is food microbiology?
14. Write a short note on Pasteurization.
15. What is food biotechnology?
16. Write a note on fermented foods.
17. What is sterilization? Give an example.
18. Write a note on dairy products with examples.
19. Write a short note on the importance of fungi in food.
20. What are mycotoxins and Botulinum?
21. Write a note on Single Cell Protein.

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V SEMESTER

PAPER - II (Agriculture Biotechnology)

QP CODE: 8576

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Write in detail about protoplast isolation & its culture.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. General composition of plant tissue culture media
3. Discuss about another culture.
4. Sterilization of explant
5. Application of agricultural biotechnology
6. Embryogenesis
7. What are transgenic plants? Give its examples
8. Macronutrients
9. Ti plasmid.
10. Anti -Sense RNA technique

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define haploid & cybrids
12. Application of embryogenesis
13. Steps involved in single cell isolation
14. Bt-cotton plant
15. Enzymatic isolation of protoplast
16. organogenesis
17. RAPD technique
18. Chemical method of gene transfer
19. CaMV (cauliflower mosaic virus)
20. Secondary metabolite
21. Suspension culture

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V SEMESTER

PAPER - III (Medical Biotechnology)

QP CODE: 8577

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Human Genome project

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. FISH
3. HGH
4. DNA finger printing
5. Stem Cells
6. RIA
7. Chemotherapy
8. Gene Gun
9. cystic fibrosis
10. Sonotheorphy

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Insulin
12. Tissue plasminogen activator
13. Magnetofection
14. Tumor suppresser genes
15. Metastasis
16. alzheimers diseases
17. SCID
18. Vaccines
19. Cytogenetics
20. Downsyndrome
21. Prto- oncogenes

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BLDE (DEEMED TO BE UNIVERSITY)

07/07/23

B.Sc. in Biotechnology

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[Max. Marks: 80]

V SEMESTER

PAPER I – Environment Biotechnology

QP CODE: 8578

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Define pollution & explain in detail about various types of pollution

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Biomagnification & its effect
3. What are different sources of pollution
4. Green- house gases & its effect
5. Afforestation
6. List out effect of water pollution on aquatic life
7. Biofertilizers
8. Define bioremediation & give its type
9. Give classification of sewage treatment
10. Control measures of soil pollution

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Define xenobiotics
12. Nitrification
13. Acid rain its causes
14. Effect of air pollution on human being
15. Difference between adsorption & absorption
16. Devices used to control air pollution
17. Single cell protein
18. Non convectional energy sources
19. Biogas plant structure
20. What is Bioluminescence
21. Superbugs