

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in Microbiology

[Time: 3 Hours]

[Max. Marks: 80]

VI SEMESTER

PAPER - I (Medical Microbiology)

QP CODE: 8605

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Enumerate the sexually transmitted infections and write in details about diagnosis, mode of transmission, prophylaxis & control measures of HIV.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Collection & transport of clinical samples
3. *Staphylococcus aureus*
4. *Plasmodium falciparum*
5. Normal microflora of gastrointestinal tract
6. Methods of transmission of infection
7. Prophylaxis for rabies
8. *Vibrio cholera*
9. Hepatitis B Virus
10. Tuberculosis

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. List the malaria parasites.
12. Prevention of Nosocomial infections.
13. MRSA
14. Normal microflora of skin
15. Carriers and their types
16. Name the infections by *Streptococcus pyogenes*
17. Name the antifungal agents
18. Cutaneous mycoses
19. BCG vaccine
20. Name the clostridium species
21. Name the Opportunistic fungal infections

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VI SEMESTER

PAPER - II (Recombinant DNA Technology)

QP CODE: 8606

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Products of recombinant DNA technology

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Bacteriophage lambda and M13 based vectors
3. Electroporation
4. Southern Blotting
5. RT-PCR
6. Chromosome Jumping
7. Site Directed Mutagenesis
8. YIp, YEp Vectors
9. Sanger's method of DNA Sequencing
10. Northern Blotting

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Baculovirus based vectors
12. Types I, II restriction enzymes
13. Transformation
14. Cosmids
15. YAC
16. DNA Ligase
17. ETBR and Bromophenolblue
18. Vectors
19. Radioisotopes
20. Sequencing
21. Splisosome

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VI SEMESTER

PAPER - III (Microbes in sustainable Agriculture & Development)

QP CODE: 8607

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Explain Soil profile and importance of soil microorganism.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. What is bio manure and give its advantages
3. Explain nitrogen cycle
4. Structure of biogas plant
5. Effect of microorganism on decomposition
6. Explain different types of biofertilizers
7. Advantages of biofuel
8. Give concept of bio pesticides
9. Give an account of plant pathogens
10. Explain types of bio control agents

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Single cell protein
12. Humus
13. Bt-cotton
14. Green revolution
15. Limitation of GMO crop
16. Rhizosphere
17. Nitrogen fixation
18. Urea cycle
19. Biofertilizers
20. Harmful effect of chemical pesticides
21. Azospirillum

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VI SEMESTER

PAPER - IV (Inheritance Biology)

QP CODE: 8608

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Extra Chromosomal Inheritance in Bacteria

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Co-dominance
3. Plasmid
4. Structure of Chromosomes
5. E coli Model Organism
6. Non homologous recombination
7. Hetrochromatin
8. Types of Linkage
9. G and Q banding Pattern
10. Karyotyping

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Klinefelter Syndrome
12. Dihybrid Cross
13. Sub metacentric Chromosomes
14. Homozygous and Heterozygous
15. Tetrad
16. Mutations
17. Pseudoallele
18. Giant Chromosomes
19. Synapsis
20. Genetic Disorders
21. Idiogram