

BLDE (DEEMED TO BE UNIVERSITY)**M.Sc. Allied Health Sciences (Medical Microbiology)**

[Time:3 Hours]

[Max.Marks:80]

III SEMESTER**PAPER – I (General Microbiology)****QP CODE: 9071**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions**10 X 3 = 30 Marks**

1. Define and classify sterilization. Describe in detail about Autoclave.
2. Draw a neat & labelled diagram of bacterial cell and explain its parts in brief.
3. Name the methods of gene-transfer and explain conjugation in detail.

Short Essays:**5 X 10 = 50 Marks**

4. Robert Koch
5. Gram staining
6. Cold Sterilization
7. Anaerobic culture methods
8. Electron microscopy
9. Bacterial growth curve
10. IMViC Tests
11. Transferable Drug Resistance
12. Bacterial Spore
13. OT Sterilization

BLDE (DEEMED TO BE UNIVERSITY) Jan-2023.

M.Sc. Allied Health Sciences (Medical Microbiology)

[Time: 3 Hours]

[Max.Marks:80]

II SEMESTER

PAPER – I (General Microbiology & Immunology)

QP CODE: 9271

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Enumerate Antigen-Antibody reactions invitro. Describe the agglutination reaction in detail
(3+7)
2. Define and classify immunity. Explain acquired immunity in detail. (1+2+7)
3. What is Sterilization? Mention different methods of sterilization. Add a note on the principle and working of autoclave. (1+2+2+5)

Short Essays:

5 X 10 = 50 Marks

4. Anaerobic culture methods.
5. Chemical agents of Sterilisation
6. Bacterial capsule.
7. Methods of horizontal gene transfer
8. Louis Pasteur
9. Principle and uses of dark field microscope
10. PCR and its uses
11. Enriched media
12. Differences between Gram positive and Gram negative bacterial cell wall
13. Type I hypersensitivity reaction

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M.Sc. Allied Health Sciences (Medical Microbiology)

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III SEMESTER
PAPER – II (Immunology)
QP CODE: 9072

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10 X 3 = 30 Marks

1. Classify Hypersensitivity reactions. Describe Type I hypersensitivity in detail.
2. Enumerate the types of Antigen-antibody reactions and discuss Heterophile agglutination tests in detail.
3. Principle and technique of preparation of Monoclonal antibodies in laboratory and their uses.

Short Essays:

5 X 10 = 50 Marks

4. PCR technique
5. Artificial active immunity
6. Differences between exotoxins and endotoxins.
7. Superantigens
8. IgM Antibody
9. Classical complement pathway
10. HLA typing
11. Humoral immunity
12. Primary immunodeficiency disorders
13. Graft versus Host reaction

Jan-2023,

BLDE (DEEMED TO BE UNIVERSITY)
M.Sc. Allied Health Sciences (Clinical Immunology)

[Time: 3 Hours]

[Max.Marks:80]

III SEMESTER
PAPER – IV (Clinical Biochemistry)
QP CODE: 9124

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10 X 3 = 30 Marks

1. How CSF is collected? What is the composition and clinical significance?
2. What is the benefits effect of dietary fibers? Write the significance of dietary protein.
3. What are the Sources, functions and deficiency manifestations of Ca, Iron, and Magnesium?

Short Essays:

5 X 10 = 50 Marks

4. Automation in clinical biochemistry laboratory
5. What are the 5 standard urine tests?
6. CSF and clinical significance
7. Which sample of urine is suitable for routine examination?
8. What are the test components of amniotic fluid analysis?
9. Sickle cell anemia
10. Jaundice – types
11. Nephritic syndrome
12. Basal Metabolic Rate (BMR).
13. Ortoaciduria.