

July-2019

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

[Time:3 Hours]

[Max.Marks:80]

III SEMESTER

PAPER – I (Immune Disorder & Diseases)

QP CODE: 9121

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

Long Questions

10X3 = 30 Marks

1. Explain immune therapy
2. Vaccines production and its applications
3. Explain Oncogenes and tumor suppresser gens

Short Essays:

5 X 10 = 50 Marks

4. What is cancer and its types
5. Host-pathogen interaction
6. adjuvants
7. Basic principle for Blood transfusion
8. Tumor metastasis
9. Immune complex mediated (type-III) hyper sensitivity reaction
10. Rh factor and MN groups
11. Myasthenia gravis
12. Hashimoto's thyroiditis
13. Anti-HIV immune response

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III SEMESTER

PAPER – II (Protein Structure & Enzymology)

QP CODE: 9122

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Explain structure of proteins
2. Explain Models of Enzyme substrate interaction
3. Allosteric Enzymes

Short Essays:

5 X 10 = 50 Marks

4. Ramachandran Plot
5. Structure of Collagen
6. Sickell Cell Haemoglobin
7. Classification of Enzymes
8. Lysozyme
9. Metello enzymes
10. Factors Affecting enzyme Activity
11. AT Case
12. Insulin
13. Globular protein

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III SEMESTER

PAPER III – (Biophysical and Biochemical techniques)

QP CODE: 9123

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Explain principle and application of electron microscope
2. Write in detail about principle and working of pH meter.
3. Explain in detail about SDS PAGE electrophoresis with neat labelled diagram and application.

Short Essays:

5 X 10 = 50 Marks

4. Explain about differential centrifugation with application
5. Instrumentation, principle and application of HPLC
6. Write role and types of stationery material used in column chromatography
7. Describe Autoradiography and its application
8. Write about NMR technique
9. Explain the principle and working of FT-IR spectrophotometer.
10. Give the working of GM muller counter
11. How sample is prepared for electron microscope
12. Define
 - a) Sedimentation rate
 - b) Relative centrifugal force
 - c) Sevedberg unit
13. Define beers-lambert's law with equation

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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. What is atherosclerosis? Causes of atherosclerosis and laboratory clinical investigations
2. Describe Clinical significance of urinary compounds -Sugar, ketone bodies and protein.
3. Mention the absorption transport and deficiency of Iron.

Short Essays:

5 X 10 = 50 Marks

4. Write note on pre, analytical and post analytical errors
5. Significance of IgG and IgA
6. What are the tests done on CSF?
7. Niemann Picks Diseases,
8. Glycogen storage disease
9. Factors affecting nitrogen balance
10. Maple Syrup urine disease
11. VonWillbrand's disease
12. Acute intermittent porphyria
13. Dietary fiber