7/24

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Laboratory Technology

[Time: 3 Hours] [Max. Marks: 80]

IV SEMESTER

PAPER - I (Fundamentals of Biochemistry II)

QP CODE: 8430

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

Long Questions **10X1 = 10 Marks**

1. Describe the importance of various dietary components. Add a note on types & causes of Protein energy malnutrition [4+6]

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Explain the components of respiratory chain in mitochondria.
3. Quality Control programmes.
4. Name the acid base disorders explain any two in detail
5. Explain the PCR technique. Add a note on applications of PCR
6. Transamination & Clinical significance of Transaminases
7. Detoxification by conjugation
8. Describe the steps of protein synthesis (translation)
9. What are radioisotopes? Give three examples of radioisotopes and its applications.
10. Explain the reactions of biosynthesis of Urea.

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Anion gap
12. Essential amino acids
13. Oxidative phosphorylation
14. Name the electrolytes and Reference values for it.
15. Genetic code
16. Net protein utilization (NPU)
17. Radiation health safety and protection.
18. Nutritional significance PUFA
19. Wobble hypothesis
20. Name plasma buffers explain any one.
21. Balanced diet

2/7/24

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B.Sc. Medical Laboratory Technology

[Time: 3 Hours] [Max. Marks: 80]

IV SEMESTER

PAPER - II (Fundamentals of Microbiology II)

QP CODE: 8431

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

Long Questions **10X1 = 10 Marks**

1. Classify Mycobacteria. Discuss Laboratory diagnosis of Pulmonary tuberculosis

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Laboratory diagnosis of infection caused by Staphylococcus aureus.
3. Widal test
4. Laboratory Diagnosis of diphtheria
5. Laboratory Diagnosis of Urinary tract infection
6. Difference between VDRL and RPR
7. Prevention and control of Hospital Acquired Infection
8. Shigellosis
9. Laboratory Diagnosis of tetanus
10. Biomedical waste management

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Classification of Streptococci
12. Enumerate infections caused by nocardia
13. Enumerate three spores forming bacilli
14. Enumerate three Gram negative cocci
15. Enumerate three each Transport and selective media for vibrio cholerae
16. Enumerate three motile gram negative bailli.
17. Morphology of Pneumococci
18. Enumerate infections caused by Klebsiella
19. Enumerate Zoonotic diseases
20. Infections produced by Pseudomonas aeruginosa
21. Enumerate six anaerobic bacteria

7/24

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[Time: 3 Hours] [Max. Marks: 80]

IV SEMESTER

PAPER - III (Haematology & clinical pathology II)

QP CODE: 8432

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

Long Questions **10X1 = 10 Marks**

1. Describe the collection, handling of specimen, processing and interpretation of cerebrospinal fluid .

Short Essays: (Any – 8) **5 X 8 = 40 Marks**

2. Fixatives in cytology
3. Different methods of blood grouping
4. Bleeding time – principle, procedure and normal range.
5. Differences between transudate and exudate
6. Color coding of biomedical waste
7. Cell block
8. Megaloblastic anemia – causes and laboratory investigations
9. Physical examination of urine
10. Steps of tissue processing

Short Answers: (Any – 10) **3 X 10 = 30 Marks**

11. Name transfusion transmitted diseases.
12. Write three advantages of liquid-based cytology
13. Factors affecting fixation of tissue by formalin
14. Name three tests for proteins in urine
15. Name the steps of H&E staining
16. Procedure of Prothrombin time test.
17. Name three types of casts seen in urine with one cause of each.
18. What is PPE? Give 5 examples
19. Procedure of Leishman staining
20. Interpretation of Benedict's test
21. Write three causes of ascites.