Truve-2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. in 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. What are Isotopes? Explain in detail their applications in Medicine.

Short Essays: (Any – 8)

 $5 \times 8 = 40 \text{ Marks}$

- 2. Role of the kidney in the regulation of blood pH
- 3. Write a note on protein energy malnutrition.
- 4. Explain the Concept of molecular wt, Eq. wt, Normality and Molarity.
- 5. Explain the functions of the body's normal pH.
- 6. Which are the factors to be considered while collecting blood samples for biochemistry tests?
- 7. What precautions should be taken while sending blood samples for ABG analysis?
- 8. What are the reasons for rejecting the blood samples by the Biochemistry laboratory?
- 9. What are the instructions to be given to patients before Biochemistry laboratory tests?
- 10. Define the PCR technique and its uses.

Short Answers: (Any – 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. Explain the Alkali reserve.
- 12. Kwashiorkor
- 13. What are the Acid-Base abnormalities occurring clinically?
- 14. Mention Normal ranges for pCO2, pO2, and HCO3.
- 15. Explain how a 2 Lt of 4 % KOH solution is prepared?
- 16. Factors responsible for maintaining quality control in the clinical laboratory.
- 17. Define SFA, MAFA and PUFA.
- 18. What is the difference between Serum and Plasma?
- 19. Clinical importance of Henderson-Hasselbalch's equation.
- 20. Which formula is used to calculate the BMI and brief its importance?
- 21. Difference between external and internal quality control.

Treve - 2023

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BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. (MLT) ALLIED HEALTH SCIENCES

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER II (Fundamentals of Microbiology) **OP 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

- Lab Diagnosis of Diphtheria
- 3. Pathogenesis and Lab diagnosis of gonorrhea
- 4. Laboratory diagnosis of diarrhoea caused by Esch. coli
- 5. Morphology of viruses
- 6. Laboratory diagnosis of infection caused by Hepatitis B virus
- 7. Laboratory diagnosis of Dengue
- 8. Laboratory diagnosis infection caused by Streptococci.
- 9. Laboratory Diagnosis of Enteric fever
- 10. Explain transport and selective media for vibrio choleriae

Short Answers: (Any - 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. Diene's phenomenon
- 12. Enumerate six Gram negative bacilli
- 13. Kass concept
- 14. Pigment produced by Pseudomonas aeruginosa
- 15. Enumerate test for Lab. diagnosis of syphilis
- 16. Enumerate Cytopathic effect of viruses
- 17. Three DNA Viruses
- 18. Enumerate six anaerobic bacteria
- 19. Enumerate six opportunistic infections associated with IIIV infection
- 20. Coagulase test
- 21. Enumerate three infections caused by Klebsiella

June -2023

BLDE (DEEMED TO BE UNIVERSITY)

B.Sc. Medical Laboratory Technology

[Time: 3 Hours]

[Max. Marks: 80]

IV SEMESTER

PAPER - III (Haematology & clinical pathology II) OP 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. Discuss etiology, bone marrow examination of megaloblastic anemia and add a note on investigations

Short Essays: (Any – 8)

 $5 \times 8 = 40 \text{ Marks}$

- 2. Write about Reticulocyte stain, its uses and normal range
- 3. Write in detail in Changes in RBC indices in Iron deficiency anemia
- 4. Sickle cell anemia
- 5. Define thrombocytosis. Write its causes
- 6. Mention anticoagulants used in laboratory and its uses?
- 7. What is the normal total leucocyte count and mention the composition of WBC diluting fluid?
- 8. Write a note on Biomedical waste management in laboratory
- 9. Erythrocyte sedimentation rate (ESR) Write conditions were raised?
- 10. Write the classification and clinical features of haemolytic anemia

Short Answers: (Any – 10)

 $3 \times 10 = 30 \text{ Marks}$

- 11. What is buffy coat? Mention its importance
- 12. Write briefly about sputum examination
- 13. Indications of lumbar puncture
- 14. Normal bleeding and clotting time
- 15. Mention 3 indications of bone marrow
- 16. Name blood indices
- 17. Peripheral study of microcytic hypochromic anemia with diagram & labels
- 18. Haemoparasites
- 19. Lab diagnosis of multiple myeloma
- 20. Normal Specific gravity of urine and conditions it is increased
- 21. What do you mean by absolute eosinophil count? Normal range