PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR FILLOMA IN

MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 HRS

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 6101, BIOCHEMISTRY

I.SHORT NOTES - ANSWER ANY EIGHT QUESTIONS

8x5 = 40

- 1) Write in detail about spectrophotometer and its applications.
- 2) Types of Jaundice. Write Characteristic features of Hepatic Jaundice.
- 3) Random access auto analyzer.
- 4) Liver function tests.
- 5) Name the different methods of Glucose Estimation. Mention their Advantages & Disadvantages.
- 6) Hypertension.
- 7) ELISA.
- 8) RIA.
- 9) Respiratory acidosis and Respiratory alkalosis.
- 10) Post analytical factors importance in clinical chemistry.

II. SHORT ANSWERS

20x3=60

- 11) Benedict's test.
- 12) Iodine test.
- 13) Van den berg test.
- 14) Reference values and its Interpretation.
- 15) Chloride shift.
- 16) Normal serum levels of chloride, Na*, K+.
- 17) List of causes of Hypokalaemia.
- 18) Principles of Quality assurance.
- 19) Explain the terms: Accuracy, precision, specificity and sensitivity.
- 20) Basic principles of estimation of Blood gases and PH.
- 21) Types of analysers and its benefits.
- 22) Isoenzymes.
- 23) Electrophoresis.

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24) Cardiac enzymes.

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- 25) Fasting blood sugar.
- 26) Formation of Bilirubin.
- 27) Renal regulation of Acid Base Balance.
- 28) Serum Cholesterol level and its interpretation.
- 29) Tests for Bile salt and Bile pigments.
- 30) Write about colorimetric absorbance and transmission of light.

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PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY QP CODE: 6101, BIOCHEMISTRY(RS -2 SCHEME) (WRITE IN GREEN ANSWERBOOK)

TIME: 3 HRS

MAX. MARKS: 100

I.SHORT NOTES - ANSWER ANY EIGHT QUESTIONS

8x5 = 40

- 1) Colorimetry, Principle, absorbance, transmittance and applications.
- 2) Random access auto analyzer.
- 3) Formation of Bilirubin.
- 4) Cardiac enzymes in Heart disease.
- 5) Jaundice and its classification.
- 6) Mention different methods of Glucose estimation.
- 7) Electrophoresis and its applications.
- 8) Enzyme Linked Immunosorbant Assay (ELISA).
- 9) Radio Immuno Assay (RIA).
- 10) Name the types of analyzers and benefit of automation.

II. SHORT ANSWERS

 $20 \times 3 = 60$

- 11) Metabolic acidosis & alkalosis.
- 12) Principles of Quality assurance.
- 13) Pre analytical factors importance in clinical chemistry.
- 14) Accuracy, Specificity & Sensitivity.
- 15) Reference values and its interpretations.
- 16) Spectrophotometry and its importance.
- 17) Laws of Photometry.
- 18) Benedict's test.
- 19) Renal function test.

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- 20) Van den berg test.
- 21) Myocardial infarction.
- 22) Chloride shift.
- 23) Biuret test.
- 24) Percentage error in laboratory.
- 25) Different methods of cholesterol estimation.
- 26) Biochemical findings in Hepatic Jaundice.
- 27) Specific gravity of Normal Urine.
- 28) Application of flame Photometer.
- 29) Creatinine clearance test.
- 30) Lipid profile.

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ANNUAL EXAMINATION, NOVEMBER 2020

III YEAR DIPLOMA IN

MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS:100

QP CODE: 6101, BIOCHEMISTRY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

 $8 \times 5 = 40$

- 1 Explain the terms; accuracy, precision, specificity and sensitivity
- 2 Cardiac enzymes pattern in heart diseases
- 3 Discuss the principle and applications of estimation of electrolytes
- 4 Explain the principle, advantages and disadvantages of any one method of glucose estimation
- 5 Discuss the principle, instrumentation and applications of spectrophotometry
- 6 Internal quality control
- 7 Principle and applications of ELISA
- 8 Renal regulation of acid base balance
- 9 Different types of jaundice with their biochemical findings
- 10 Automation in clinical chemistry; principle and applications

SHORT ANSWERS

20x3=60

- 11 Preanalytical variation in clinical chemistry
- 12 Explain the laws of photometry
- 13 Hypoglycemia
- 14 Chloride shift
- 15 Biuret test
- 16 Write the normal values of serum electrolytes
- 17 Principles of quality assurance
- 18 Seliwanoff's test
- 19 Define pH, what is the normal pH of blood? Interpret on it
- 20 Limits of error allowable in clinical laboratory
- 21 Lipid profile
- 22 Radio Immuno Assay (RIA)
- 23 Hypokalemia
- 24 Angina pectoris
- 25 Applications of electrophoresis
- 26 Random access autoanalyser
- 27 Benedict's test
- 28 Bilirubin formation
- 29 Reference values and interpretations
- 30 Respiratory acidosis and respiratory alkalosis

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SUPPLEMENTARY EXAMINATION, JULY 2021

III YEAR DIPLOMA IN

MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 Hrs

(RS -2 SCHEME)

MAX. MARKS:100

QP CODE: 6101, BIOCHEMISTRY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

 $8 \times 5 = 40$

- 1 Write instrumentation and benefits of autoanalyser
- 2 Explain laws, parts, instrumentation and applications of spectrophotometer
- 3 Write principles and applications of Radio Immuno Assay (RIA)
- 4 Patterns of cardiac enzymes in heart diseases
- 5 Write principle and applications of electrolyte analyser
- 6 Renal regulation of acid base balance
- 7 Define jaundice and write different types of jaundice with their characteristics features
- 8 External Quality Control
- 9 Write principle, types and applications of electrophoresis
- 10 Write advantages and disadvantages of different methods of glucose estimation

SHORT ANSWERS

20x3=60

- 11 Isoenzymes
- 12 Explain accuracy and precision
- 13 Percentage error in laboratory
- 14 Respiratory acidosis and Respiratory alkalosis
- 15 Fouchet test
- 16 Reference value and its interpretation

17 Applications of flame photometry

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- 18 Chloride shift
- 19 Define hypertension. Write different types of hypertension
- 20 Pre analytical factors in clinical chemistry
- 21 Principle and applications of blood gas analyser
- 22 Biochemical finding in hepatic jaundice
- 23 Principle and advantages of glucose oxidase method
- 24 Lipid profile
- 25 Blood buffers
- 26 Biochemical findings in pre hepatic jaundice
- 27 Post analytical factors in clinical chemistry
- 28 Benedict's test
- 29 Principles of quality assurance
- 30 Test for bile salts

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ANNUAL EXAMINATION, NOVEMBER 2021

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QP CODE: 6101, BIOCHEMISTRY

(WRITE IN GREEN ANSWER BOOK)

SHORT NOTES - ANSWER ANY EIGHT

 $8 \times 5 = 40$

- Colorimetry- Principle, absorbance, transmittance and applications
- 2 Mention different methods of Glucose estimation
- 3 Name the types of analyzers and benefits of automation in clinical laboratory
- 4 Enzyme Linked Immunosorbant Assay (ELISA)-Principle and applications
- Define Jaundice and mention the types
- 6 Pattern of Cardiac enzymes in heart diseases
- 7 Electrophoresis and its applications
- 8 Lipid profile
- 9 Arterial blood gas (ABG) analysis
- 10 Metabolic acidosis

SHORT ANSWERS

20x3=60

- 11 Glomerular filtration rate (GFR)
- 12 Give Reference values for a) Urea b) Creatinine c) Uric acid
- 13 Define a) Accuracy and b) Specificity
- 14 Mention three Pre-analytical errors
- 15 Define pH and mention the normal blood pH value
- 16 Percentage error
- 17 Name the serum electrolytes and mention their normal values
- 18 Principle of quality Assurance
- 19 Applications of Radioimmunoassay (RIA)
- 20 Give the normal value of serum cholesterol. Mention different methods of cholesterol estimation
- 21 Angina
- 22 Define Hypertension and mention the normal values for blood pressure (BP)
- 23 Name three bile pigments
- Mention the normal value of a) FBS b) PPBS c) RBS 24
- Applications of flame photometry

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- 26 Respiratory acidosis
- 27 Name the liver function tests to assess the carbohydrate metabolism.

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- 28 Benedict's test- principle and significance
- 29 Creatinine clearance test
- 30 Hypokalemia
