

N.A



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – DMLT-2021

Course Name – Clinical Biochemistry

Course Code - DMLT404

(Semester IV)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Which one is a marker for cardiac disease
- | | |
|--------|--------|
| a) ALP | b) AST |
| c) GGT | d) ALT |
- (ii) Which lipoprotein is richest in cholesterol
- | | |
|----------------|---------|
| a) LDL | b) HDL |
| c) Chylomicron | d) VLDL |
- (iii) Hyperamylasemia refers to
- | | |
|---|---|
| a) Elevated levels of amylase in faeces | b) Elevated levels of serum amylase |
| c) Elevated levels of amylase in urine | d) Elevated levels of amylase in synovial fluid |
- (iv) Which of the following is the screening test for the diagnosis of thyroid disease?
- | | |
|--------------------------------|-------------|
| a) Thyroid Stimulating hormone | b) Total T3 |
| c) Total T4 | d) Free T3 |
- (v) In blood T3 bound to
- | | |
|-------------------------------|---------------------------------|
| a) thyroxine binding globulin | b) thyronin binding pre albumin |
| c) hemoglobin | d) both a and b |
- (vi) Select an autoimmune joint disease
- | | |
|-------------------------|--------------------|
| a) Dermatomyositis | b) Celiac disease |
| c) Rheumatoid arthritis | d) Addison disease |
- (vii) Delivering a report to a wrong patient is considered as
- | | |
|-------------------------|--------------------------|
| a) Pre Analytical error | b) Post Analytical error |
| c) Analytical Error | d) None of these |
- (viii) The main hormone secreted by the Thyroid gland
- | | |
|------------|-----------------|
| a) T3 & T4 | b) TSH |
| c) PTH | d) All of these |
- (ix) Hypothyroidism causes in an adult _____
- | | |
|------------|-------------|
| a) Obesity | b) Diabetes |
|------------|-------------|

- c) Cretinism
- (x) LDL represent in biochemistry as -
- a) lack of different lipoprotein
c) low density lipoprotein
- (xi) To produce cholesterol which enzyme is responsible
- a) AMG CoA Redutase
c) HMG CoA Redutase
- (xii) Identify the 1st step of QA
- a) Developments of standards
c) Servicing
- (xiii) Excess fecal fat termed as
- a) Steatorrhea
c) Hyperglycemia
- (xiv) D-xylose is type _____ sugar.
- a) Pentose
c) aldo Pentose
- (xv) Grave's disease is due to _____
- a) Hyperactivity of thyroid gland
c) Hyperactivity of adrenal cortex
- d) Myxoedema
- b) low density lipopolymarase
d) low deficiency lipoprotein
- b) AMG CoA transferase
d) HMG CoA transferase
- b) Identification of Patient's need
d) Material control
- b) Hypercholesterolemia
d) Hirschsprung
- b) keto Pentose
d) none of these
- b) Hyperactivity of adrenal medulla
d) Hyperactivity of islets of langerhans

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Define the principle of an autoanalyzer. (3)
3. Write down the importance of CPK- MB test in cardiac disease. (3)
4. Write down some cardiac disease marker (3)
5. Describe the importance of an electrolyte analyzer in clinical biochemistry. (3)
6. Conclude post-analytical error. (3)

OR

Differentiate Accuracy and Precision.

(3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Briefly discuss the clinical significance of thyroid function tests. (5)
8. Describe the principle of the ELISA technique. (5)
9. How can you diagnose Rheumatoid arthritis? (5)
10. Contrast between LFT and TFT. (5)
11. Illustrate the L-J chart with its clinical significance in the field of quality control. (5)
12. Critically classify the continuous flow analyser. (5)

OR

Difference between continuous flow analyser and district flow analyser.

(5)
