8103

BOARD DIPLOMA EXAMINATION, (ER-20) MAY-2023

DPH - SECOND YEAR EXAMINATION

BIOCHEMISTRY AND CLINICAL PATHOLOGY

Time: 3 Hours] | Total Marks: 80 PART-A $5 \times 6 = 30$ Instructions: (1) Answer any six questions. (2) Each question carries five marks. (3) Answers should be brief and straight to the point and shall not exceed five simple sentences. Write the factors that affect enzyme activity Define and classify Proteins with example. 1+4=5 Define and classify Vitamins with examples and write the functions and 1+2+2=5deficiency diseases of Vitamin A. What is Glycolysis and write the reactions of Glycolysis. 1+4= 5 4. 5 Write the reactions of Urea cycle. What are electrolytes and write the functions and deficiency diseases of 5 (a) Calcium and (b) Sodium Write about liver function tests and their clinical significances. 5 | Contd... 1 /8103

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PART-B

3×10=30

Instructions: (1) Answer any ten questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- Write the structures of (a) Glucose (b) Maltose and (c) Galactose. 1+1+1=3
- Write the classification of Amino Acids based on nutritional requirements with example. 3
- 10. Define the terms (a) Carbohydrates (b) Proteins and (c) Lipids 1+1+1=3
- Write the mechanism of action of Enzymes. 3
- Write the co-enzymes of B-complex vitamins. 3 -
- Write about (a) fatty liver and (b) phenyal ketonuria. 3 13.
- Write the function and deficiency diseases of Iron. 3
- 2+1=3Write lipid profile tests and their clinical significances.
- 3 16. Write about (a) Kwashiorkor and (b) Marasmus.
- 3 Write the significance of abnormal constituents of urine.
- Write the role of platelets in health and disease.

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PART-C

1×20=20

Instructions:

- Answer all questions.
 - (2) Each question carries one marks.
 - (3) Choose the correct answer or write the correct answer.
- 19. The active site of protein synthesis is
 - (a) Nucleus
 - (b) Ribosomes
 - (c) Mitochondria
 - (d) Cell sap
- 20. Cobalt is the essential component of
 - (a) Vitamin B1
 - (b) Vitamin B6
 - (c) Vitamin B12.
 - (d) All of the above
- 21. Which of the following Vitamin deficiency causes Beri-Beri?
 - (a) Vitamin A
 - (b) Vitamin B
 - (c) Vitamin B₆
 - (d) Vitamin B₁₂
- 22. Iodine is used for the prevention of
 - (a) Goiter -
 - (b) Pellagra
 - (c) Scurvy
 - (d) Diarrhoea

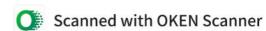
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23.	Dehydration is occurred due to
20.	(a) insufficient intake of water
	(b) excessive water
	$a_{ij} = a_{ij} + a$
	s the above
24.	Decrease in number of Lymphocytes below the normal value is called as
	(a) lymphocytosis ·
	(b) lymphopenia
	(c) Both (a) and (b)
	(d) purpura
25.	An example of ketone bodies is
	(a) acetone
	(b) acetoacetate
	(c) betahydroxybutyrate
	(d All of the above
06	The end product of Glycolysis under anaerobic condition is
26.	
	(a) pyruvic acid (b) lactate
	(c) acetic acid
	(d) acetoacetate
27.	Diabetes Mellitus occurs due to deficiency of
	(a) insulin,
	(b) glucagon
	(c) cortisone
	(d) thyroxine

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28.	An example of non-reducing sugar is
	(a) frutose
	(b) galactose
	(c) sucrose,
	(d) glucose
29.	LDL refers to
	(a) bad cholesterol -
	(b) good cholesterol
	(c) total cholesterol
	(d) None of the above
30.	Red blood cells are also called as
	(a) leukocytes
	(b) erythrocytes ·
	(c) lymphocytes
	(d) platelets
31.	Molisch test is used for the identification of
32.	Example of sulphur containing amino acid is
33.	Phenylketonuria occurs due to the deficiency of enzyme.
24	Example of Pyrimidine nitrogenous bases is
34.	
35.	Deficiency of Vitamin-D leads to in Children.
36.	Benzidine test is used for detection of in the urine.
37.	Pellagra occurs due to the deficiency of
38.	Synthesis of Glycogen from glucose is called
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