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UNIT EXAM KINGS PERORY

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		UNI	T EXA	M 1			
	Grade 10	Science	ENG	MED	Tim	e – 1 ½	
Nai	me						
	ool						
	itute					MM	
1.	Which of the following 1) Protein	is not a bio molecule 2) Vitamin	3)	Lipid	4)	Nucleic Acid	
2.	To be the observation 1) Appearance of a b 3) Appearance of a b	olue color	2)			-brown precipitat bbules	
3.	Which of the following 1) Starch	is not a polysacchario	de? 3)	Fructose	4)	Glycogen	
4.	The protein in the feath 1) Hemoglobin	ners is 2) Keratin	3)	Mayosin	4)	Osein	
5. The structure of an amino acid is $\frac{R'}{l}$ given. Which one is the carboxyl group? $H_2N-C-COOH$							
	1) NH ₂	2) COOH	Э)	Н	4)	R	
6.	What are the fat-solub	le vitamins? 2) A, B, C, D	3)	A, B, E, K	4)	A, C, D, K	
7.	Compound vitamin is, 1) A	2) C	3)	В	4)	K	
8.	Non-organic compone 1) Protein	nt in the body of orga 2) Water	inisms 3)	Lipid	4)	Carbohydrate	
9.	Wrong statement about 1) DNA and RNA are 3) Performs Protein s	the types	2) 4)	Storage of go		nation	
10.	Ratio of Hydrogen and	Oxygen in Carbohyo	drates ,				

1) 1:2

4) 3:1

2) 2:1

3) 1:1

11.	Тур	e of carbohydrate in	sucro	ose				
	1)	Monosaccharide	2)	Disaccharide	3)	Polysaccharide	4)	Nothing
12.	What 1)	at is the component for Starch		in the plant cell wall? Cellulose	3)	Glycogen	4)	Maltose
13.		main components in C, H, O, N		ed in lipids are, C, H, O, N, P	3)	C, H, O	4)	C, H, O, P
14.		ter-insoluble carbohyd Starch		Glucose	3)	Sucrose	4)	Maltose
15.	Min 1)	eral that contributes t K	to blo 2)	ood clotting Ca	3)	Mg	4)	P \
16.	A ch 1)	nemical used in the la lodine		tory to identify starch Sudan III	3)	Copper Sulphate	4)	Hydrochloric Acid
17.	Foo 1)	ds containing lipids Bread	2)	Lentils	3)	Butter	4)	Potato
18.	The 1) 3)	special property of v Water is a solvent The water is coolant		that allows aquatic o	rgan 2) 4)	isms to breathe under Water is a conductiv Becoming a habitat	e me	edium.
19.		at are the water-solul A, C	ble vi 2)	tamins? B, C	3)	A, B	4)	E, K
20.	Whi	ich element is found i O	in the 2)	human body in large C		mount by mass? N	4)	Н
21.	Whi	ich vitamin is the cau A	se of 2)	anemia? B	3)	С	4)	D
22.	Wh: 1) 3)	at is another name fo Biuret Test Sudan III	or pro	tein testing?	2) 4)	Starch Test Glucose		
23.	Whi 1) 3)	ich of the following st It is a good solvent It acts as a medium		ents about water is in	corre 2) 4)	ect? It regulates body ten It has low heat capa	•	ature
24.	Whi 1) 3)	ich of the following vit Vitamin A - Night blir Vitamin B - Anemia		n- disease combinatio ss		wrong? Vitamin K – Delays I Vitamin D - Scurvy	oloo	d clotting
25.		at is the structural un		nucleic acid? DNA	3)	Amino Acid	4)	Nucleotide



26. Which of the following is a biological substance used as a biological catalyst?

- 1) Hormone
- 2) Enzyme
- 3) Bile

4) Nucleic acid

27. The human body is made up of 7% minerals, Which minerals make up $^3/_4$ of that?

- 1) Fe, Cl
- 2) Mn, Zn
- 3) Ca. P

4) Mg, Ca

28. Fatty acid with only single bonds between Carbon atoms is

- 1) Cis Fatty Acid
- 2) Trans Fatty acid
- 3) Saturated fatty acid 4) Unsaturated fatty acid

29. An hormone is vertebrates that is formed by lipids

- 1) Growth hormone 2) Adrenaline
- 3) Insulin

4) Oestrogen

30. Consider the following equation:

$$2 C_6 H_{12} O_6 \rightarrow C_{12} H_{22} O_{11} + H_2 O_{12} O_{12} + H_2 O_{13} O_{14} + H_2 O_{14} O_{15} O_{15} + H_2 O_{15} O_{15}$$

Select the option that gives appropriate examples for A and B in the above equation

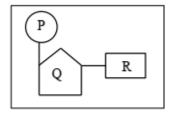
Option	A	В	
(1)	glucose	maltose	
(2)	glucose	cellulose	
(3)	fructose	starch	
(4)	fructose	glycogen	

PART II /A

01. The chemical substances that make up the body of the organisms can be classified into two main categories. They are bio-organic compounds and bio-inorganic compounds.

I. Give 4 types of bio-organic compounds,

II. The structural unit of one of the above bio-organic compound is shown below.



a. Name the structural unit shown above figure.



b. Identify the components P, Q and R here.					
P	Q	R			
III. Give 2 fund question I.	ctions of the polymer	formed by the combination of components shown in the figure II			
В.					
I. Complete th	ne following chart:				
Component	Elements that make up	Reagent Observation			
Glucose					
Protein	C, H, O, N (S)	Sudan III			
II. Give 2 unique properties of water that contribute to the survival of living organisms.					
02. One step o	of an activity performe	ed to identify a certain nutrient in a student's food is given below.			
Food extract	Food extract Reagent P Floating of red fat globules				
i. What is the	nutrient identified in	the food extract?			
ii. Name the three elements that have contributed to the build-up of that nutrient.					
iii. Name the P reagent in the above diagram.					



iv. Name a lipid component that helps in the formation of cell membranes.
v. Name the chemical substance and explain the observation you got in the activity to identify that water is present as a component in food.
Λ - Μ
vi. Name a deficiency symptom that you see in plants due to the deficiency of the mineral calcium. PART II /B
(01) (A) Carbohydrates are the most abundant organic compound. These compounds can be classified into 3 groups according to the way they are formed.
I) Name the 3 main groups of carbohydrates that can be classified in to and give an example for each group.
II) X is a compound relevant to one type of carbohydrate you mentioned above. When a certain reagent is added to a tube containing X and heated, a series of colours would be observed.a) What would be X?b) What is the reagent added to X?c) What is the last colour of the colour series that was observed?
(B) The highest proportion of the body mass of a living organism is composed of water which is an inorganic compound.



1) Which fraction of body weight of organisms is by water?

2) How is the solvent property of water mainly useful for aquatic animals?

3) Which property of the water is helpful to transport water to the upper parts of the plant?