Subject : Home Science
Paper Name : Biochemistry
Paper Number : HS/II/CC/09
Semester : 2nd Semester

A : Multiple choice 1x25 = 25

1. The term Biochemistry was coined by Neuberg in

1.	, , , , , , , , , , , , , , , , , , , ,	l by Neuberg in 1903 () 1904 ()
2.	Starch is an example of a) Monosaccharide () c) Polysaccharide ()	b) Disaccharide () d) Pentasaccharide ()
3.	Sucrose is made up of a) Glucose and galactose () c) Glucose and Trehalose ()	b) Glucose and Fructose ()d) None of the above ()
4.	Glucose is a/an a) aldose sugar () c) both (a) and (b) ()	b) ketose sugar () d) None of the above ()
5.	The most abundant monosaccharid a) D-glucose () c) D- fructose ()	le in nature is b) L- glucose () d) D-ribose ()
6.	The melting point of fatty acid is in a) chain length () c) both of the above ()	b) degree of unsaturation () d) none of the above ()
7.	Fatty acids with many double bond a) saturated () c) polysaturated ()	ds are known as b) unsaturated () d) polysaturated ()
8.	Which one mostly form the lipid b a) glycolipids () c) phospholipids ()	ilayer of cell membranes ? b) lipolipids () d) None of the above ()
9.	Which of the following is an essen a) palmitic acid () c) triglyceride ()	tial fatty acid ? b) stearic acid () d) arachidonic acid ()
10.	Linoleic acid is an example of a) phospholipid () c) unsaturated fatty acid ()	b) amino acid () d) saturated fatty acid ()

contd /2..

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11.	Which of the following is essential a	amino acid?						
	a) Lysine ()	b) Alanine ()						
	c) Cysteine ()	d) Tyrosine ()						
12.	The amino acid which containes sulp	phur atom is						
	a) methionine ()	b) cysteine ()						
	c) both of the above ()	d) none of the above ()						
13.	Most of the amino acids exist in biological system as							
	a) L-form ()	b) D-form ()						
	c) both (a) and (b) ()	d) none of the above()						
14.	The bond which links amino acids is known as							
	a) glycosidic bond ()	b) peptide bond ()						
	c) covalent bond ()	d) phosphodiester bond ()						
15.	Tryptophan is an example of							
		b) acidic amino acid ()						
	c) aromatic amino acid ()	d) basic amino acid ()						
16.	Which one does not influence enzyme activity?							
	a) pH ()	b) temperature ()						
	c) pressure ()	d) strong acid ()						
17.	Enzyme enhance the rate of biological reactions by							
		b) lowering the activation energy () b) getting used up ()						
	c) changing equilibrium point of reaction ()							
	d) None of the above ()							
18.	•	The word enzyme which means in yeast was coined by						
	a) Louis Pasteur ()	b) Hans Kreb ()						
	c) JD Watson ()	d) Kuhne ()						
19.	Most of the enzymes are destroyed or made inactive by temperature above							
	a) 55 degree celcius ()	b) 60 degree celcius ()						
	c) 65 degree celcius ()	d) 70 degree celcius ()						
20.	Dehydrogenase is an example of							
	a) hydrolase enzyme ()	b) transferase enzyme ()						
	c) oxido-reductase enzyme ()	d) isomerase enzyme ()						

contd/3

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21.	DNA was discovered in 1869 to a) Miescher () c) JD Watson ()	b) Hans Kreb d) Lipmann	()			
22.	The following nitrogen base is a) thiamine () c) uracil ()		()			
23.	Krebs cycle takes place in the a) nucleus () c) cytosol ()	b) mitochondriad) golgi body	()			
24.	Initial substrate for Krebs cycle a) œ-ketoglutaric acid () c) Lactic acid ()		()			
25.	DNA is a polymer of a) nucleoside () c) acetyl CoA ()	b) nucleotided) alcohol	()			
B:	Fill up the blank :	(1x15=15)				
1.	The linkage between two mone	osaccharide units is called	·			
2.	Starch gives colour in iodine test.					
3.	Cellulose is a polymer of					
4.	Three fatty acids links with glycerol to form					
5.	is the ill-smelling of fat.					
6.	One gram of lipid is estimated to yield kilocalories of heat.					
7.	The amino acids which are synamino acid.	thesized by the body are ki	nown as			
8.	Haemoglobin is an example of structure of protein.					
9.	Amino acids at neutral pH exis	et asions.				
10	Protein splitting enzymes are c	ollectively known as	enzyme			

Contd/4

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11.	is the actual place of catalysis on the enzyme molecule.
12.	The apoenzyme and coenzyme constitute an active enzyme known as
13.	Double helical structure of DNA was discovered by
14.	Process of making glucose from non-carbohydrate sources is known as
15.	The linkage between two nucleotides is known as

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Keys to answer:

A: Multiple choice:

1.	(b)	2.	(c)	3.	(b)	4.	(a)

B: Fill up:

1.	Glycosidic bond	2.	<u>Blue</u>	3.	Monosaccharide
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- 4. <u>triglyceride</u> 5. <u>Rancidity</u> 6. <u>93</u>
- 7. non-essential 8. Tertiary 9. Negative
- 10. <u>proteolytic</u> 11. <u>Active site</u> 12. <u>Holoenzyme</u>
- 13. Watson & Crick 14. Gluconeogenesis 15. Phosphodiester bond

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^{25 (}b)