Paper / Subject Code: 82806 / Biochemistry

Time: 21/2 Hours

1. Attempt all questions.

Total Marks: 75

- 2. All questions carry equal marks.
- 3. Draw neat labeled diagrams wherever necessary.
- 4. Use of log tables and non-programmable calculators is allowed.

Select the correct alternative: (Any Fifteen) Q.1 a.

15

- Which of the following bonds are not involved in the tertiary type of protein 1. structure? a. Disulfide bond

 - b. Hydrogen bonding
 - c. Salt bridge
 - d. Hydrophilic interaction
- Which of the following is false about fibrous protein? 2.
 - a. It is in rod or wire-like shape
 - b. Keratin and collagen are the best examples
 - c. Hemoglobin is the best example
 - d. It provides structural support for cells and tissues
- Process of folding does not depend on 3.
 - a. Concentration of salts
 - b. pH
 - c. Solute
 - d. Solvent
- Myoglobin is particularly abundant in
 - a. Nerves
 - Muscle
 - C. Blood cells
 - Skin
- The contractile protein of a muscle is
 - Troponin
 - Myosin
 - Tubulin
 - Tropomyosin
- Glycogen synthesis from glucose is done by the enzyme
 - Glycogen polymerase
 - Glycogen ligase
 - c. Glycogen lyase
 - d. Glycogen synthase
- Peptidoglycan polymers are synthesized in the
 - a. Cytoplasm
 - b. Nucleus
 - c. Cell membrane
 - d. Cell wall
- The essential intermediates in the pathway from acetate to cholesterol are

 - b. Ethylene
 - c. Isoprene units
 - d. Methane

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	2, 2, 7,
9.	In humans, High levels of cholesterol in the blood are correlated to
	a. Cardiovascular diseases
	b. Liver disease
	c. Kidney diseases
	d. Neither
10.	A protein that performs priming function during glycogen biosynthes
	a. Glycogenin
	b. Thermogenin
	c. Proteolipids
	d. Neither
11.	Which of the following hormones is a polypeptide?
11.	a. Estrogen
	b. Insulin
	c. Androgen
	d. Epinephrine
12.	Hormones are
12.	
	a. messengers b. catalysts
	c. enzymes
	d. inhibitors
13.	Which of the following is not an amine hormone?
15.	
	a. Norepinephrine b. Adrenaline
	c. Thyroxine
1.4	d. Oxytocin Identify the hormone that increases the glucose level in the blood.
14.	
25	
2	b. Glucagon
3	c. Oxytocin
1.5	d. Vasopressin
15.	The condition of goiter is associated with which hormone?
135	
w.	b. Thyroxine
	c. Adrenaline
16	d. Cortisone
16.	The deficiency disease associated with vitamin B1 (Thiamine) is
200	a. Beriberi
miles.	b. Night blindness
<i>S</i> p. (c. Osteomalacia
	d. Scurvy
17.	Which mineral helps to reduce dental decay?
700	a. Zinc
D.	b. Fluoride
	c. Manganese
	d. Chromium
5	

18. Which	0,70
a. Iron	4
18. Which mineral is a major/macro mineral? b. Zinc	67
c. Calcium	5
d. Copper	AST R
19. Sodium dec	18
19. Sodium deficiency is seen with a. Excessive sweating	
a. Excessive sweating b. Excessive	(Carlotte)
c. Lack of a lintake	
d. Excessi	JAN S
What are the order in the disc	100 TE.
u. Fdans 11 Vyllillionae Ca	
What are the primary symptoms of Marasmus? a. Edema, diarrhea, and weight loss b. Weight loss, muscle wasting, and lethargy d. Diarrhea, years in the diet.	270
C. Favor wasting	10 Silver
d. Diarrhea was in difficulty in breast	3
a, vomiting and all including	4
Q.2 a. How do protein makes	
proteins? proteins?	
Q.2 b. Explain the tart:	
Q.2 a. How do protein motifs serve as a crucial structural basis for classifying Q.2 b. Explain the tertiary and quaternary structural basis for classifying the control of	1g 08
Q.2 b. Explain the tertiary and quaternary structure of a protein with an exam Q.2 c. Discuss the process of protein folding high tree.	00
mechanisms.	ple.
mechanisms involved. Q.2 d. Discussed the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding, highlighting the key and the process of protein folding the process of protein foldi	07
2 TOURS the ACV Drine 1	and
hemoglobin and myoglobin.	08
Q.3 a. Explained Proteins, focus	ioin.
Q.3 a. Explain the synthesis of peptidoglycan in bacteria.	on 07
Explain the regulation of chal	
Q.3 b. Explain the regulation of cholesterol biosynthesis. Q.3 c. Diagrammatical	
Q.3 c. Diagrammatically explain starch biosynthesis. Q.3 d. Explain glycogenesis in detail.	08
Q.3 d. Explain glycogenesis in detail.	. 07
Q.4 a. What	
What are hormoness	08
Q.4 b. Elaborate or Elaborate o	07
Q.4 a. What are hormones? Discuss about the group I and II hormones and a Elaborate on androgen synthesis, physiology, and bioch	
synthesis, physiological and in the synthesis and synthesis and the synthesis and the synthesis and the synthesis	their 08
Q.4 b. Elaborate on androgen synthesis, physiology, and biochemical functions. Q.4 c. Discuss Abnormalities of growth home	00
Oxytocin. Oxytocin. Oxytocin.	07
Q.4 c. Discuss Abnormalities of growth hormones and add a note on the functions Q.4 d. Elaborate on estrogen synthesis, physiology, and bigg!	
on estrogen synthesis, physical	of as
Q.5 a. Discussed	08
- iocus the -	0=
Q.5 a. Discuss the sources, functions, and deficiency disorders related to vitamin K. Q.5 c. Explain sources, forms of	07
Riboflavin V	
Q.5 c. Explain sources C. OR	08
	07
Q.5 c. Explain sources, forms, functions, and deficiency disorders of vitamin K. Q.5 d. Write a note on the importance of Potassium in the diet.	
Portance of Potassium in the vitamin D.	00
in the diet.	08
	07