REV-00 BBC/07/12

2015/12

## B.Sc. BIOCHEMISTRY Fifth Semester CLINICAL BIOCHEMISTRY (BBC - 22)

# **Duration: 3Hrs.**

# Full Marks: 70

Part-A (Objective) =20 Part-B (Descriptive) =50

## (PART-B: Descriptive)

#### Prration: 2 hrs. 40 mins.

Marks: 50

#### Answer any *five* of the following questions:

1.	What is Porphyria disease? How many types of Porphyria are present?		
	Explain any two.	(2+2+6=10)	
2.	What is Homocystinuria? How is it diagnosed and how can the disease be		
	prevented?	(2+3+5=10)	
3.	Describe the types of urine collection. Give a brief chemical analysis of urine.		
		(7+3=10)	
4.	What are functional plasma enzymes? Describe the metabolic pathway of		
	bilirubin.	(2+8=10)	
5.	What is vitaminosis? Explain the disease related to hypothyroidism. Briefly		
_	describe hypoinsulinism.	(2+4+4=10)	
	What is the normal value of blood glucose and uric acid? Explain how these two		
	parameters are estimated.	(4+6=10)	
7.	Explain the concept of homeostasis and thrombosis.	(5+5=10)	

8. Give clinical presentation of liver and kidney function test. (5+5=10)

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# **Duration: 20 minutes**

### (PART A- Objective Type)

b. night blindness

b. lowrys test

d. alkaline phosphatase activity

# I. Choose the correct answer:

- Hypoglycemia is a condition in which the blood glucose level is

   a. very high
   b. moderate
   c. above the threshold level
   d. low
- Glycohaemoglobin can be estimated with

   a. boronate affinity chromatography
   c. benedicts test
- Deficiency of cystathione beta synthase cause
   a. porphyria
   b. homocystinuria
  - c. hypoglycaemia d. diabetes
- 4. Diabetes is a disorder ofa. energyb. glucosec. metabolismd. food
- 5. How many types of porphyria are found? a. 8 b. 9 c. 7 d. 5
- 6. Hypervitaminosis A causes a. rickets
  - c. pellagra d. none of these
- The disorder of iodine metabolism leads to a. xerophthalmia
   b. anaemia
  - c. goiter d. alzheimer
- 8. Increased amount of galactose in urine leads to
  - a. glucosemia b. galactosemia
  - c. glucosuria d. galactosuria
- 9. The number of isoenzymes in Lactate Dehydrogenase is a. 2 b. 3 c. 4 d. 5

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Marks - 20

1×20=20

	10	Thrombosis is a disease related to a. less amount of RBC c. hemolysis	b. blood clot d. none of these	
	11	.Venipuncture is done for collection a. urine c. blood	on of b. cerebrospinal fluid d. all of the above	
	12	Bilirubin is excreted in feces as a. stercobilin c. urobilinogen	b. urobilin d. biliverdin	
	13	.Demyelination of neural tissue is a. Fe b. Cu	caused by deficiency of c. I d. K	
	14	.Blood urea nitrogen level is meas a. liver function test c. gastric function test	ured in b. pancreas function test d. kidney function test	
	15	.Sickle –cell anaemia is an exampl a. insulinsm c. hemoglobinopathies	e of b. phosphatemia d. none of these	
	<ul><li>16.Gigantism is due to</li><li>a. increased secretion of growth hormone.</li><li>b. increased secretion of thyroid hormone.</li><li>c. decreased secretion of growth hormone.</li><li>d. decreased secretion of thyroid hormone.</li></ul>			
	17	The abnormal form of hemoglobin a. thalassemia c. homeostasis	n is seen in b. thrombosis d. none of these	
T	18	Test for ALT and AST is done in a. liver function test c. gastric function test	<ul><li>b. pancreas function test</li><li>d. kidney function test</li></ul>	
	19	The concentration of functional pl a. low in plasma than tissue c. equal in both plasma and tissue	asma enzyme is b. higher in plasma than tissue d. none of these	
	20.	Blood glucose level is maintained a. insulin c. phosphate	by b. thyroid d. both insulin and phosphate	

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