PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023

(Sixth Semester)

Branch-BIOCHEMISTRY

CLINICAL BIOCHEMISTRY

Time:	Three Hours		Maximum: 75 Marks	
	SECTION-A (1 Answer ALL o ALL questions carry EO	questions	$(10 \times 1 = 10)$	
1.	The glycogen can't break down. collects Symptoms include a swollen belly, delay (i) Type I glycogen storage disease (ii) Type II glycogen storage disease (iii) Type III glycogen storage disease (iv) Type IV glycogen storage disease	in the liver and mus ed growth, and wea	scle tissues. k muscles.	
2.	Which of the following serum measurem diabetes mellitus? (i) Fasting blood glucose (iii) Insulin	ents are not used for (ii) Postprandial bl (iv) Urea		
3	Which of the following statements is true (i) 1.30 kg to 1.56 kg (iii) 1.36 kg to 1.71 kg	e about the weight of the human liver? (ii) 1.44 kg to 1.66 kg (iv) 1.68 kg to 1.86 kg		
4.	Familial hypercholesterolemia is a genetic disorder of cholesterol metabolism. The defect lies in the			
5.	Phenylketonuria in a genetic disorder car (i) Phenyl alaniue hydronylase (iii) Thyprophan hydronylase	used by deficiency i (ii) Thyrosine hyd (iv) Histicline hyd	ronylase	
6.	Ammonia in the brain is converted into. (i) Urea (ii) Glutamine	(iii) Glutamic acid	(iv) Creatinine	
7.	Conjugated hyperbilirubinaemia results from. (i) Gilbert's syndrome (ii) Physiologic jaundice (iii) Excess production of bilirubin (iv) Decreased hepatic uptake of bilirubin			
8.	This can cause Hepatitis. (i) an improperly functioning immune system (ii) alcohol and medicines (iii) viruses (iv) all of these			
9.	Myxoedema in adults is caused due to. (i) Hyperthyroidism (iii) Over production of PTH	(ii) Deficiency of (iv) Deficiency of		
10.	Effects of hypothyroidism include all ex (i) Diarrhoea (ii) lethargy	ccept. (iii) Anorexia	(iv) Weight gain	

(i) Diarrhoea

18BCV26/18BCU26 Cont...

SECTION - B (35 Marks)

 Answer	ALL	Questions

ALL Questions Carry EQUAL Marks

 $(5 \times 7 = 35)$

- Write down altered metabolism in hypoglycaemia. Classify hypoglycaemia and mention the control measures to in hypoglycaemic management.

 (Or)
 - b) Chart out metabolic disorder and effects in fructosuria and galactosemia.
- 12. a) Explain types of fatty liver.

(Or)

- b) Write about abnormality and treatment for steatorrhea, Neimann pick-disease.
- 13. a) Discuss about the following clinical disorder i) Hartnup's disease ii) MSUD. (Or)
 - b) Discuss about inborn metabolic error and management of i) Albanism ii) Phenyl ketonuria.
- 14. a) What is jaundice? Explain metabolic changes, symptoms and types of Jaundice.

(Or)

- b) Explain the following abnormalities and control measure i) Crigler-Najjar syndrome ii) Gout.
- 15. a) Discuss in detail about hypothyroidism with reference to pathology, symptom and treatment.

(Or

b) Differentiate clinical pathology symptoms and treatment in Cushing syndrome and Addison's disease.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks

 $(3 \times 10 = 30)$

- 16. Narrate in detail I to IV types of glycogen storage diseases; including metabolic alteration, symptoms and control measures.
- 17. What is hyper lipoproteinemia? Describe its clinical manifestation, symptoms and treatment in types of hyper lipoproteinemia.
- 18. Discuss briefly on manipulations in marker enzymes in following:

i) Cardiac disease

- ii) Liver disease.
- 19. Discuss on the following:

i) Orotic aciduria

ii) Xanthinuria

iii) Gilberts disease.

20. How are catecholamines measured? Explain where and how catecholamines abnormal levels influence pathophysiology.

Z-Z-Z

END