Turn over

D 103023		(Pages:	3)	Name
				Reg. No
FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION				
APRIL 2024				
		Biochemi	stry	
	BCH 4C	04—BIOCH	IEMISTRY—IV	V
	(2020	) Admission	onwards)	
Time: Two Hours				Maximum : 60 Marks
		Section	A	
		nswer <b>all</b> qu question car		
1. Nam	e the major end product of β-o	xidation.		
2. Exan	nple for a ketogenic amino acid	d is		
(a	Alanine.	(b)	Histidine.	
(0	e) Leucine.	(d)	Arginine.	
/	a and rho factors are required	d for ———	and -	———— of transcription
(a	) Termination and initiation	. (b)	Elongation and	d termination.
(0	e) Initiation and termination	(d)	Initiation and	elongation.
4. ——	is secreted by adr	enal cortex.		
(a	Epinephrine.	(b)	Cortisol.	
(0	e) Noradrenaline.	(d)	Growth hormo	ne.
5. A cod	lon consists of	— nucleotide	s.	
(a	) Two.	(b)	Four.	

(d) Five.

(b) 128.

(d) 121.

(c) Three.

(a) 132.

(c) 129.

6. Name the two hormones secreted by thyroid gland.

7. Number of ATP generated from one palmitic acid is -

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- 8. Name the site of formation of urea.
- - (a) Small intestine.

(b) Large intestine.

(c) Mouth.

(d) Stomach.

 $(9 \times 1 = 9 \text{ marks})$ 

## **Section B**

Answer any **seven** questions. Each question carries 3 marks.

- 10. Give an account of deamination reaction of amino acids with example.
- 11. State the salient features of genetic code.
- 12. Write note on thyroid gland hormones and their function.
- 13. What is fatty acid biosynthesis and its importance?
- 14. Differentiate between glucogenic and ketogenic amino acids.
- 15. Write short note on DNA polymerases.
- 16. What hormones are produced by the pancreas? State their function.
- 17. Give an account of the steps involved in lipid digestion.

 $(7 \times 3 = 21 \text{ marks})$ 

## **Section C**

Answer any **four** questions. Each question carries 5 marks.

- 18. Detail on the structure of tRNA and its function.
- 19. How is ammonia metabolized in our body?
- 20. Outline  $\beta$ -oxidation reactions and calculate the ATP yield from palmitate.
- 21. How are hormones classified based on their chemical nature?
- 22. Enlist the proteins and their functions involved in DNA replication.

 $(4 \times 5 = 20 \text{ marks})$ 

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## Section D

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Answer any **one** question. The question carries 10 marks.

- 23. Describe cholesterol biosynthesis.
- 24. Explain DNA replication in prokaryotes.

 $(1 \times 10 = 10 \text{ marks})$