

Total No. of Questions: 28]

[Total No. of Printed Pages: 4

12thARM(SZ)JKUT2024 1129 BIOCHEMIS ΓRY

Time: 3 Hours] [Maximum Marks: 70

SECTION-A

(OBJECTIVE TYPE QUESTIONS/DO AS DIRECTED) 1 each

- Atherosclerosis is complex disease found commonly in higher developed countries like USA, UK than in developing countries like India, China, Africa.
- 2. What is amino acid?
- 3. Alkaptonuria has a great historical importance and first discovered by:
 - (A) Lusitanus
 - (B) Ganrod
 - (C) Both (A) and (B)
 - (D) None of these

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4.	Which of the following is not secreted from thyroid gland?
	(A) T ₃
	(B) T ₄
	(C) Calcitonin
	(D) Insulin
5.	TCA cycle is also known as
6.	What are immunoglobulins ?
	SECTION-B
	(VERY SHORT ANSWER TYPE QUESTIONS) 2 each
7.	What do you mean by aerobic glycolysis ?
8.	What is deamination?
9.	How fatty acids are activated in catabolic process?
10.	What is salvage pathway?
11.	Classify hormones based on nature.
12.	Write down the biochemical functions of Insum
13,	What is the denovo pathway of DNA synthesis?
14.	What is the main function of Auxin?

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SECTION-C

(SHORT ANSWER TYPE QUESTIONS)

3 each

15. What do you mean by Transamination ?

Or

Explain decarboxylation.

- 16. Explain the phenomenon of β -oxidation.
- 17. What is phenylketonuria caused by ? How do you treat PKU patients ?
- 18. What role does glucagen play in hunger? Why does glucagen stimulate insulin?
- 19. Why is gibberellins useful? Write main functions of Gibberellins.
- 20. What is cyclic phosphorylation? Which substance is produced in cyclic phosphorylation? https://www.jkboseonline.com
- 21. Discuss C₃ pathway.
- 22. Explain the phenomenon of initiation of transcription.
- 23. What is the humoral immunity? What are humoral agents?
- 24. What are non-communicable diseases? Discuss any one of them.
- 25. What is genetic engineering? What are three types of genetic engineering?

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SECTION-D

(LONG ANSWER TYPE QUESTIONS)

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26. Explain the steps of energetics of glycolysis.

Or

What are the reactions in the TCA cycle? What is the citric acid cycle in the mitochondria and what is the reaction sequence of the TCA cycle?

27. Discuss the nature and properties of hormones.

Or

Discuss the physiological role and biochemical role of aldosterone and progesterone.

28. What is replication? Write down the characteristics of DNA replication.

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What is DNA polymerase? What are the three main functions of DNA polymerase? What is the role of DNA polymerase in transcription?

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