

APRIL/MAY 2019

BABC25C — BIOCHEMISTRY – II

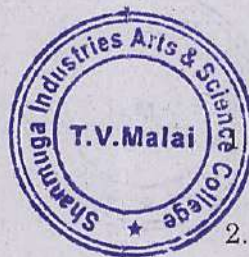
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.



Which enzymes in glycolysis are subject to allosteric inhibition?

2. What are the three metabolic pathways which pyruvate can take?
3. What is the treatment for jaundice?
4. What are the early signs and symptoms of hypoglycemia?
5. What are the two enzymes that the pancreas produce to help with digestion?
6. Define Enzyme inhibition.
7. Name the stop codon for protein synthesis.
8. Genetic code is non overlapping – Explain.
9. What are the symptoms of Rickets?
10. Where do we get vitamin B complex naturally?

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SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions

11. (a) Write a detailed account on the TCA cycle.
Or

- (b) Explain briefly about and Urea cycle and discuss about its importance.

12. (a) Give an account on the glycogen storage diseases.

Or

- (b) Explain the clinical presentation of phenyl ketonuria.

13. (a) Explain briefly about the biological functions of enzymes.

Or

- (b) What is induced fit theory? – Explain.

14. (a) Discuss in detail about central dogma of life.

Or

- (b) Explain in detail about RNA as genetic material in certain organisms.

15. (a) Give an account on the functions of any two water soluble vitamins.

Or

- (b) Describe about biological source of vitamins.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions

16. Elaborately discuss about HMP Shunt pathway and its importance.

17. Explain in detail about the causes, symptoms and prevention of dehydration.

18. Discuss the mechanism of enzyme action with illustrations.

19. Discuss the mechanism of replication of DNA in eukaryotic organisms.

20. Discuss elaborately on vitamins A and K deficiencies.