

23242

3 Hours / 80 Marks



Seat No.

2	8	8	8	8	8	8	8
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- Instructions –
- (1) All Questions are Compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

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Marks

1. Attempt any SIX of the following:

30

- a) Define carbohydrate and write classification with examples.
- b) What are Proteins? Briefly explain their biological role. Explain secondary structure of proteins.
- c) Discuss different factors affecting enzyme activity.
- d) What is kreb cycle? Mention steps in kreb cycle.
- e) Explain biological oxidation with ETC and oxidative phosphorylation.
- f) Discuss urea cycle and decarboxylation.
- g) Discuss the functions of liver. Explain liver function test.

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2. Attempt any TEN of the following:

30

- a) Draw the structure and enlist any two functions of cholesterol in the body.
- b) Explain the following -
 - i) Triglycerides
 - ii) Fatty liver
 - iii) Emulsification test
- c) Explain the structure of DNA.
- d) Describe Vitamin A. Its chemical nature and deficiency diseases.
- e) Give an account of metabolism of fats with reference of β -oxidation.
- f) What are ketone bodies? Discuss formation of Ketone bodies.
- g) Give the functions of following -
 - i) Sodium
 - ii) Chloride
 - iii) Cobalt
- h) What is dehydration? Discuss its causes and ORT.
- i) Write in detail about renal function test.
- j) Discuss about abnormal constituents of urine and their significance.
- k) Write about abnormal RBCs and related diseases.

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Marks

20

3. Attempt ALL of the following:

- a) Which one is the largest organelle in the cytoplasm?
i) Lysosomes ii) Mitochondria
iii) Golgi apparatus iv) Endoplasmic reticulum
- b) The cellular organelles called suicidal bags are _____
i) Lysosome ii) Ribosome
iii) Nucleolus iv) Golgi complex
- c) Draw the structure of glucose. <https://pharmacyindia.co.in/>
- d) Name one optically inactive amino acid.
- e) Name any two sulfur containing amino acids.
- f) Define Vitamins.
- g) Write any two functions of RNA.
- h) What is holoenzyme? <https://pharmacyindia.co.in/>
- i) Enlist any two functions of lipids.
- j) Write any two functions of Vitamin C.
- k) The deficiency of Vitamin B₁ causes _____
i) Xerophthalmia ii) Beri-Beri
iii) Pellagra <https://pharmacyindia.co.in/> iv) Scurvy
- l) Name the coenzymes of Vitamin B₆ and Vitamin B₂.
- m) What is Glycogenolysis?
- n) Body water is regulated by the hormone _____
i) ADH ii) ACTH
iii) FSH iv) Epinephrine
- o) Enlist any two functions of water. <https://pharmacyindia.co.in/>
- p) Explain the terms ECF and ICF.
- q) The term biotechnology was coined in 1919 by _____
i) Karl Ereky ii) Alexander Flemming
iii) James Watson iv) Francis Cricks
- r) Define "biotechnology".
- s) ALT is also known as _____ <https://pharmacyindia.co.in/>
i) Alanine amino transferase ii) Amino leucine transferase
iii) Aspartate amino transferase iv) None of these
- t) What is Rothera's test?