

MBBS Proteins And Amino Acids – Biochemistry Chapter Wise

Previous Exam Questions conducted by KUHS (Kerala University of Health Sciences)

1. Name the sulphur containing amino acid. Discuss metabolism of the essential amino acid of this group and add a note on associated inborn errors. (1+5+4=10 marks)
2. Important compounds derived from glycine/Mention the reactions by which glycine is synthesized and catabolized. Add a note on the specialized products formed and mention the disorders associated with glycine metabolism (2+6+2=10)
3. Describe the various mechanisms by which ammonia is detoxified in the body& add a note on urea cycle disorders(7+3=10)
4. Describe the pathway for synthesis of urea. Add a note on the regulation of the pathway. Name two conditions in which blood urea is increased giving the biochemical basis or enzyme defect (5+3+2=10)
5. Define urea cycle and describe the reactions of urea cycle
6. Describe the reactions of urea cycle. Discuss the interrelationship between urea cycle and citric acid cycle
7. Mention the normal blood urea level. Explain how urea is synthesized in the body
8. Energy expenditure in Urea cycle
9. What is active methionine. Mention two examples of transmethylation reaction.
10. Functional classification of proteins
11. Enumerate essential amino acids/ Name four essential amino acids.
12. Discuss the metabolism of phenyl alanine
13. Oroticaciduria
14. Homocystinurias
15. Phenylketonuria
16. Alkaptonurea/ Enzyme defect in alkaptonuria
17. Hartnup's disease
18. Albinism
19. Ketogenic amino acids
20. Active methionine
21. Name two plasma transport proteins and mention their role
22. Polyamines/ Name the polyamines and mention its functions
23. Define transamination and explain by giving two examples. (1+4=5)
24. Trans methylation reactions/Mention three examples of trans methylation reactions
25. VMA
26. Mention the chemical name of lecithin
27. Secondary structure of proteins
28. Define iso-electric pH, State properties of a protein at its isoelectric pH
29. Name two transport proteins
30. Importance of glutamine
31. Glutathione/Biological action of glutathione
32. GABA
33. Covalent modification
34. Enzyme defect in maple syrup urine disease
35. Name the biochemical test for phenyl ketonuria
36. Normal level of serum albumin
37. Mention two examples of biologically important peptides/ Mention two biologically active peptides
38. Denaturation/ Bond not broken in denaturation of protein
39. Heat coagulation
40. Sources of ammonia

41. Folate trap
42. Alpha helix
43. List the compounds formed from arginine
44. List two examples of mucopolysaccharides.

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