

## **MBBS Molecular Biology – Biochemistry Chapter Wise Previous Exam Questions conducted by KUHS (Kerala University of Health Sciences)**

1. What is translation? Discuss the process of translation and add a note on post translational modifications (1+6+3=10)
2. Describe the process of transcription. What are the post transcriptional modifications. Mention two inhibitors of transcription. (6+3+1=10)
3. Discuss the process of DNA replication and mention the inhibitors of Replication. Give a note on DNA repair(6+2+2=10)
4. Describe how protein is synthesized in body. Name any two inhibitors of protein biosynthesis. Add a note on post translational modifications. (6+2+2=10)
5. Define replication. Describe in detail the replicative process in prokaryotes with the help of diagrams
6. (1+6+3=10)
7. How purine nucleotides are degraded. Add a note on abnormalities due to excessive purine catabolism. (3+2=5)
8. Describe the salvage pathway of purine nucleotide synthesis with its significance. Describe the disorder associated with it.
9. Name the amino acids involved in the synthesis of pyrimidine
10. Discuss the process of transcription in prokaryotes
11. Describe the structure and functions of tRNA
12. Define nucleotide. Define two adenosine nucleotide derivatives
13. Mention the salient features of genetic code. Discuss in detail the various types of mutation. (3+7=10)
14. Define genetic code/ What are the salient features of genetic code
15. The end product of purine metabolism in human
16. What is gout? Mention the causes of primary gout
17. Normal serum uric acid level
18. Describe uric acid formation and mention the clinical significance of its estimation.
19. Define gout and name three drugs used to treat gout
20. Telomerase
21. Restriction endonuclease/ What are restriction endonucleases. What are their uses/ List the functions of restriction endonucleases/ Restriction enzymes
22. Molecular scissors
23. Reverse transcriptases
24. DNA helicase
25. Lesch- Nyhan syndrome/ Deficient enzyme and clinical features in Lesch – Nyhan syndrome
26. Role of one carbon compounds in purine & pyrimidine formation
27. Klenow fragment
28. Gene therapy
29. Mention the examples of partially acceptable missense mutation and unacceptable missense mutation
30. Frame shift mutation
31. Point mutation. Give one example for point mutation/ Examples for point mutation
32. Discuss the base repair mechanism of DNA
33. Disorder of defect in mismatch repair
34. Xeroderma pigmentosum is due to deficiency of what process
35. Disorder of defect in excision nucleotide repair
36. Sickle cell anemia
37. Mention two features of mitochondrial DNA
38. Wobble hypothesis

- 39. Spliceosomes
- 40. PCR technique/Write principle and application of polymerase chain reaction
- 41. Four applications of recombinant DNA technology
- 42. Apoptosis

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