UNIT 4

10 MARKS

1. a, Explain the structure of RNA

   b, Biosynthesis of DNA**
2. Briefly discuss the composition of DNA with a suitable diagram**
3. Describe the synthesis of purine nucleotide and its regulation.*
4. Classify the proteins with suitable examples.
5. Describe protein synthesis and its inhibitors*
6. How genetic code is used for amino acid coding and explain with wobbles hypothesis?
7. Bio-synthesis of De-novo pathway of purine and explain any one metabolic disorder of purine.
8. Explain the steps involved in Biosynthesis of Nucleotide

5 Marks

1. Structure and function of tRNA, mRNA
2. Translation
3. Transcription
4. Outline the biosynthesis of pyrimidine nucleotides.*
5. Biosynthesis of Purine nucleotides**
6. RNA
7. ATP
8. DNA structure
9. What is genome?
10. Nucleoproteins
11. Differences bt DNA and RNA (minimum 10 differences)**
12. Genetic code*
13. Nucleotide*
14. Briefly explain Transcription
15. DNA replication.
16. Name the bases present in DNA.
17. Briefly explain organization of mammalian genome.

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2 MARKS

1. Nucleotide
2. What is Nucleoside? Give example
3. Differences bt DNA RNA
4. Codons
5. cAMP
6. What are the enzymes needed for salvage pathway of purines, and importance of the salvage pathway.
7. Name the Purine and Pyrimidine bases present in the Nucleic acids.
8. ATP
9. Write any two functions of nucleic acids.
10. Differentiation mRNA & tRNA.
11. Structure of t-RNA*

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