D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS),VELLORE-1

I M.Sc Biochemistry

Semester : II

Tile of the paper: MOLECULAR BIOLOGY

Subject Code : 15CPBC2C

SECTION-A 6 MARKS

1. Explain Semi conservative type of replication.
2. Write in detail about Rolling circle model of replication.
3. Explain Melson and Stahl experiment.
4. Discuss different types of replication.
5. Short note on different models of replication.
6. Describe inhibitors for replication.
7. Explain Okazaki fragments.
8. Make a note on enzymes in replication.
9. Explain open promoter complex.
10. Write the concept of RNA editing.
11. Discuss post translational modification.
12. What is Spacer Sequences explain it.
13. Discuss various sites of Transcription.
14. Explain Self Splicing introns.
15. Discuss the role of enhancer in Transcription.
16. Discuss salient features of Genetic code.
17. Explain Wobble hypothesis.
18. Write the Composition of eukaryotic ribosome.
19. Write the composition of Prokaryotic ribosome.
20. Explain the role of ER in translation.
21. Explain the inhibitors of protein synthesis.

22. Write in detail about Post translation modification.
23. Discuss Protein targeting.
24. Explain Translocation.
25. Describe Heat Shock Proteins.
26. Discuss Brittern Davison Models.
27. Explain Gene dosage.
28. Explain DNA binding Protein.
29. Explain different types of Mutation.
30. Discuss SOS repair.
31. Write Nucleotide excision repair.
32. Explain Molecular Mechanism Mutation.
33. Describe Mutagenic Repair.

SECTION-B 15 MARKS

1. Describe in detail about Prokaryotic replication.
2. Write in detail about Eukaryotic replication.
3. Explain in detail about Plasmid replication.
4. Write in detail about Prokaryotic Transcription.
5. Explain in detail about Eukaryotic Transcription.
6. Discuss Post translation Modification.
7. Explain detail about Prokaryotic Translation of Protein.
8. Write in detail about Eukaryotic Translation of Protein.
9. Describe in detail about Operon Models.
10. Explain in detail about Gene Amplification.
11. Write in detail about Mutation.
12. Explain in detail about DNA Repair.