## True or false

- 5. Mitochondria also contain DNA.
- 6. Dna A protein synthesise primer.
- 7. Group I introne is self splicing.
- 8. Traslocation is required in initiation.

## Q3. Answer in short. (Any ten)

[20]

- 1. Define gene.
  - 2. Give reason: mitochondriya is semi autonomus organelles.
  - 3. Define mobile gene.
  - 4. Define Replication.
  - 5. What is primosome?
  - 6. Define replisome.
  - 7. Explain :spliciosome.
  - 8. What is role of polyadenylate polymerase?
  - 9. What is role of kinase?
  - 10. Define translation.
  - 11. Define genetic code.
  - 12. Write use of tRNA in translation.

## Q4.: Long answer questions. (any four)(8 marks each)

[32]

- 1. Explain: salient feature of viral genome.
- 2. Short note on: salient feature of euk. Genome.
- 3. Explain: initiation of replication.
- 4. Explain: termination of replication
- 5. Explain: initiation of transcription
- 6. Write short note on: generation of 5' cap in mRNA
- 7. Explain: initiation of translation.
- 8. Explain: inhibition of protein synthesis by antibiotics and toxins.