Q.1 Discuss the different form of DNA .which form of DNA was proposed by Watson and Crick.

q.2 Give a brief account of different kinds of RNAs known in the living system. Discuss the structure and function of t RNA.

Q.3 Explain the following

a)Replication is a semiconservative process in terms of DNA.

b) Replication fork.

Q.4 Give difference between the following:

a) Prokaryotic and eukaryotic DNA polymerase

b) Prokaryotic and eukaryotic protein synthesis.

Q.5 Write short note on:

a)Clover leaf model of holley(t-RNA)

b)Transposons

c)Translocation in protein synthesis

d)Chain termination codons

e)teminism

f) Wobble hypothesis

g) Operator gene

h) promoter gene

i)DNA transformation

j)Transduction

k)Leaderberg and tatum experiment

l)circular DNA

m) Single standed DNA

n)Nucleotides

Q.6What is central dogma of molecular biology? Briefly give the mechanism of polypeptide synthesis.

Q.7 Describe the experiment in detail which initially demonstrated that DNA is genetic material.

Q.8 Explain the properties of genetic code in detail.