



DATE: 03/10/2017

TOTAL MARKS: 25 Time: 11:00 a.m to 12:30 p.m Note: Figures on the right indicate marks Q-1: Attempt the following multiple choice questions: (03)1) Right handed DNA involves: a) A-form c) C-form b) B-form d) All of these 2) DNA polymerase 1 was discovered by: a) Arthur Kornberg c) Howard Temin b) De Lucia and Cairns d) Reiji Okazaki 3) Reverse transcriptase is an example of: a) DNA dependent DNA polymerase c) RNA dependent DNA polymerase b) DNA dependent RNA polymerase d) RNA dependent RNA polymerase Q-2: Attempt the following questions . (Any 2) (04)i) Name any two unusual bases in t-RNA. ii) What are weak promoters? Cite an example of it. iii) Write the key sequences on OriC of E.coli. Q-3: Describe the structure of t-RNA and mention its role in detail. (06)OR Q-3: Discuss the experiments conducted by Griffith, Harshey and Chase. (06)

Q-4: What were the proposed modes of DNA replication? Explain an experiment that proves the actual mode of DNA replication.

(06)

(06)

Q-5: Describe initiation and elongation of transcription in E.coli.

Q-4: Explain the process of elongation of DNA replication in E.coli.

(06)

OR

OR

Q-5: Write a note on RNA splicing.

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