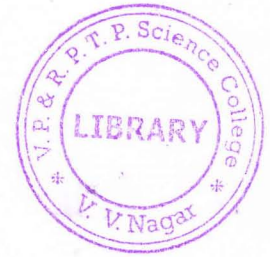


V. P & R. P. T. P Science College
Microbiology (Sem -V)
USO5CMIC01
Internal test



Date: 1/10/2019

Time: 11:00 a.m to 12:15 p.m

Figures on right indicate marks

Marks:25

Que: 1) Attempt the following multiple choice questions.

(05)

- 1) Self pairing of this RNA destroys its biological nature.
a) mRNA b) rRNA c) tRNA d) Both b and c
- 2) This is a cutting joining enzyme.
a) Ligase b) Topoisomerase
c) Helicase d) Primase
- 3) This factor is not present in bacterial RNA polymerase holoenzyme.
a) α b) β
b) ρ d) σ
- 4) This factor is required for translocation during protein synthesis.
a) IF-1 b) EF-Tu
c) EF-Ts d) EF-G
- 5) Initiator t-RNA first binds to this site on ribosome.
a) A b) P
c) E d) B

Que: 2) Discuss the organization of eukaryotic chromosome in eukaryotes. (05)

OR

Que: 2) Draw the structure of tRNA and mention the functions of each arm. (05)

Que: 3) (a) Write the mechanism of initiation of DNA replication in *E.coli* (03)

(b) Write the salient features of Bacterial DNA polymeraseIII (02)

OR

Que: 3) Write a note on elongation of replication in bacteria (05)

Que: 4) Discuss the group II and III RNA splicing (05)

OR

Que: 4) Explain the process of termination of bacterial transcription (05)

Que: 5) Explain the process of initiation of translation in prokaryotes. (05)

OR

Que: 5) Write on degeneracy and wobble nature of genetic code. (05)