Class: TYBSc   Sem: 5
Subject: Microbiology   **Paper I   Sample Paper**

Instructions
All Questions in Section I are compulsory
Attempt any 12 out of 15 questions from Section II
Attempt any 8 out of 15 questions from Section III

Section I
Q1   DNA replication occurs by which method?
A   Conservative
B   Non-conservative
C   Dispersive
D   Semi-conservative

       The strand of DNA which is synthesized discontinuously during replication is
Q2   called_____
A   Primer
B   Template
C   leading strand
D   lagging strand

Q3   The synthesis of single stranded RNA from DNA is called_____
A   Translation
B   Transcription
C   Replication
D   Recombination

Q4   If the Mutant characteristic affects only the individual then it is called_____
A   Germ-line mutation
B   Somatic mutation
C   Fluctuation
D   Adaptation

Q5   The exchange of genetic material which occurs through phage is called _____
A   Transformation
B   Conjugation
C   Transduction
D   Recombination

Section II
Q6   The origin of DNA replication in prokaryotes is _____
A   ORC
B   ARS
C   Ori C
D   SRA

Q7   The protein coding genes are present on_____
A   tRNA
B   rRNA
C   mRNA
D   snRNA

Q8   Which of these cells do not have F plasmid?
A   F+
B   F-
C   F'
D   Hfr

Q9   The base present at _____ can wobble.
A   3' on anticodon
B   3' on codon
C   5' on anticodon
D   5' on codon

Q10   In transformation process, which protein is involved in converting dsDNA to ssDNA?
A   Com X
B   Com G
C   Com EA
D   Com I

Section III
Q11   During DNA replication the free 3'OH group is provided by _____
A   Primer
B   Template
C   leading strand
D   lagging strand

Q12   The TATA box consensus sequence is present at__ region.
A   -10
B   -35
C   +1
D   -1

Q13   The 16S rRNA is present within_____ subunit of ribosome.
A   50S
B   30S
C   60S
D   40S

Q14   The enzyme photolyase is involved in which type of DNA repair
A   Mismach repair
B   Base excision repair
C   Dark repair
D   Light repair

Q15   Protein coded by which gene is involved in resolving the Holliday junction?
A   ruvA
B   ruvB
C   ruvC
D   ruvD