

Gurudas College
Department of Biochemistry
Internal Assessment – 2020
Semester-V Hons.
Paper CC 11 (SET 3)

Total Marks-10

Choose the correct option:

1. The least level of chromosome organization is

- a) 30nm fibre
- b) solenoid
- c) nucleosome
- d) none of the above

2. Which is the most processive of prokaryotic DNA polymerases?

- a) pol I
- b) pol II
- c) pol III
- d) klenow fragment

3. What constitutes Primosome?

- a) Dna a, Dna b, Dna c, Dna G
- b) Dna b, Dna G
- c) Dna c, Dna b
- d) Dna a, Dna c

4. A DNA sequence is read by an RNA polymerase that produces complementary antiparallel RNA strand known as

- a) Hexa transcript
- b) secondary transcript
- c) primary transcript
- d) tertiary transcript

5. In an experiment you mutate the consensus sequence at the -10 box. You observe the rate of transcription reduces. Now you make complementary mutation to the sigma factor. What will you observe?

- a) Further decrease in transcription rate
- b) Increase in transcription rate
- c) Original transcription rate
- d) Increase in rate of random transcription

6. The IS elements can be identified by the presence of _____

- a) Antibiotic resistance gene
- b) Endonuclease cleavage site
- c) 50 bp inverted repeat
- d) Integrase site

7. A nonsense mutation is one that:

- a) Changes an amino acid from one to another
- b) Deletes segments of RNA
- c) Adds an additional codon to an RNA transcript
- d) Creates a premature stop codon

8. In nucleotide excision repair mechanism which of the following proteins first recognises DNA lesion?

- a) UvrA
- b) UvrB
- c) UvrC
- d) UvrD

9. The sequence of the structural genes in the lac operon is

- a) lacA-lacZ-lacY
- b) lacZ-lacY-lacA
- c) lacZ-lacA-lacY
- d) lacA-lacY-lacZ

10. Mendel took _____ contrasting characteristics of pea plants.

- a) eight
- b) seven
- c) six
- d) five