Gurudas College

Department of Biochemistry

Internal Assessment – 2020

Semester-V Hons.

Paper CC 11 (SET 2)

Total Marks-10

Choose the correct option:

1. The distinct zig-zag appearance of the chromatin fibre is due to _____

a) Nucleosome
b) Histone H1
c) Histone core
d) Linker DNA

2. How many prokaryotic DNA polymerases have 5'->3' proofreading activity?

a) 1
b) 2
c) 3
d) 4

3. Which of this subunit is not a part of core DNA polymerase?

a) Alpha
b) Beta
c) Theta
d) Eta

4. Which of these subunits of RNA polymerase is totally required to initiate transcription?

a) alpha (α)
b) sigma (σ)
c) omega (ω)
d) beta (β)

5. Which protein mentioned below can reverse central dogma?
a) Ribosome
b) Restriction Endonuclease
c) Reverse Transcriptase
d) RNA Polymerase

6. Direct repeats in the IS element are present _____
a) Within the transposon
b) Upstream the inverted repeat
c) Within the inverted repeat
d) Downstream the inverted repeat

7. Which type of mutation results in the sickle-cell disease phenotype?
a) Conservative mutation
b) Frameshift mutation
c) Non-conservative missense mutation
d) Codon deletion

8. Which of the following enzyme(s) is involved in base-excision repair?
a) DNA glycosylase
b) AP endonuclease
c) AP exonuclease
d) both a) and b)

9. Which of these acts as an inducer of the lac operon?
a) Allolactose
b) Lactose
c) Galactose
d) Glucose

10. Which of the following characteristics of pea plants was not used by Mendel in his experiments?
a) seed colour
b) seed shape
c) pod length
d) flower position