

CLASS XII BIOLOGY

- 1 Which enzyme will be produced in a cell in which there is a nonsense mutation in the lac y gene?
 - 2 How does transfer of genetic information from one bacterium to another takes place by transduction process?
 - 3 How are repressible enzymes formed?
 - 4 What is reverse transcriptase?
 - 5 How is expression of transgene in target tissue in transgenics determined?
 - 6 What are methylated genes?
 - 7 What is teminism?
 - 8 Describe the following operons a)inducible operon b)repressible operon c)tryptophan operon
 - 9 How does telomere repetitive DNA sequences control the functioning of eukaryotic chromosomes?
 - 10 What is point mutation?
 - 11 What is wobble hypothesis?
 - 12 What is one gene one enzyme hypothesis?
 - 13 Give the difference between A,B and Z DNA?
 - 14 What is CAT box?
 - 15How minisatellites differ from microsatellites ?
- Text for assertion reasoning (question 16-25)
- 16 The complementary strand is unlikely to code for a useful protein.

- 17 The rRNA of two organisms is compared to detect their relationship.
- 18 Alu repeats in human genome are referred to as selfish DNA.
- 19 Some genes in human genome are referred as pseudogenes.
- 21 There are only 20 amino acids in the biological system.
- 22 DNA code must be a triplet code.
- 23 SV40 is useful for genetics study.
- 24 The control of gene expression is more complex in eukaryotes than in prokaryotes.
- 25 Heterochromatin stains darker in interphase.
- 26 In RNA thiamine is replaced by
a)uracil b)adenine c)thiamine d)guanine
- 27 Which of the following is non genetic and is utilized for protein synthesis
a)tRNA b)ZRNA c) mRNA d)none of these
- 28 Which one of the following is not a part of a transcription unit In DNA
a) a promoter b) the structural gene c) the inducer d) a terminator
- 29 Structural element of chromatin is a)histone b)acid protein and DNA c)nuclear matrix d)nucleosomes
- 30 Some amino acids are coded by more than one codon hence the code is
a)unambiguous b)degenerate c)universal d)initiator