

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

> Workbook answers

Chapter 6

Exam-style questions

- 1 a i** transcription ; [1]
ii transfer RNA / tRNA ; [1]
iii ribosome ; [1]
iv R is an anticodon ; temporarily binds with complementary codon on mRNA ; tRNA with a particular R / anticodon carries a specific amino acid ; ensures that the correct amino acid is placed in the growing polypeptide chain ; [max 3]
b deletion of one nucleotide changes the triplet code ; so a different amino acid is coded for / inserted into the polypeptide ; reference to frame shift ; all subsequent triplets / amino acids affected ; different primary structure of protein so a different tertiary structure ; active site no longer able to bind with substrate ; [max 4]
[Total: 10]

- 2 a i** CCA TAG CAC GTT ACA ACG
TGA AGG TAA
all bases correct ; shown as triplets ; [2]
ii CCA UAG CAC GUU ACA ACG
UGA AGG UAA
all A, C and G bases correct ; all U bases correct ; [2]
b i insulin molecule is too large ; is hydrophilic / cannot move between phospholipids ; [2]
ii glycoprotein ; [1]
iii glucose cannot pass through the phospholipid bilayer ; can only move into a cell through transporter proteins ; by facilitated diffusion ; allow active transport ; glucose moves

down concentration gradient (into the cell) ; [max 2]

- c i** a random / unpredictable change in the base sequence of DNA ; change in the number / structure, of chromosomes ; [2]
ii Note: only one amino acid changed – no frame shift change in the amino acid sequence / primary structure, of insulin ; resulting in a change in its tertiary structure ; shape of binding site no longer complementary to the shape of the receptor ; [3]
iii they have two chromosomes carrying an insulin gene ; the other gene may be normal ; so they can still make some normal insulin ; [max 2]
[Total: 16]
3 a i smaller in prokaryotes ; [1]
ii free in cytoplasm in prokaryotes but also on endoplasmic reticulum in eukaryotes ; some in chloroplasts/ mitochondria, in eukaryotes ; [2]
b holds tRNA in position next to the complementary mRNA codon ; two tRNAs in position at any one time ; reference to P site and E site for binding of tRNA ; so peptide bond forms between adjacent amino acids ; ribosome moves along mRNA strand ; so tRNAs bind in sequence determined by the sequence of codons on mRNA ; any other valid point, e.g. detail of recognition of start and stop codons ; [max 4]
c i pancreatic cells are very active in protein synthesis ; [1]
ii so that labelled amino acids travelled through the cell as a 'pulse' ;

Reading And Study Workbook Biology Answers Chapter 6

**James Hall Zimmerman, Sophie E.
Merritt**



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