

Unit 2 - Week 0

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Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-09-14, 23:59 IST.

- 1) If red blood cells are kept in a hypertonic solution, the cells will 1 point
- A) Shrink B) Remain healthy C) Swell and burst D) None of the above
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)
- 2) Endocytosis is: 1 point
- A) An energy requiring process for taking bulky materials inside the cells
B) An energy independent process for taking bulky materials into cells
C) An energy requiring process to release bulky material out of the cell
D) An energy independent process to release bulky materials out of the cells
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)
- 3) The ideal B-DNA helix has 1 point
- A) 10 base pairs per turn and pitch of 34 Å
B) 11 base pairs per turn and pitch of 34 Å
C) 10 base pairs per turn and pitch of 3.4 Å
D) 11 base pairs per turn and pitch of 3.4 Å
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)
- 4) Protein synthesis occurs from the following RNA 1 point
- A) t-RNA B) r-RNA C) mRNA D) siRNA
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C)
- 5) Walter Gilbert and Frederick Sanger were awarded Nobel Prize in 1980 for 1 point
- A) fundamental studies of biochemistry of nucleic acids
B) elucidating the molecular structure of nucleic acids
C) contribution in nucleic acid base sequencing
D) interpretation of genetic code and its function in protein synthesis
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C)
- 6) A kinase is an enzyme that 1 point
- A) transfers adenylyl group from ATP to metabolite
B) transfers phosphoryl group from a metabolite to ADP
C) perform all the above functions
D) transfers phosphoryl group from ATP to a metabolite
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D)
- 7) Which of the following sequence is not a DNA sequence? 1 point
- A) AATTC C) GATTAC D) TTTTTC
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B)
- 8) which of the following step of glycolysis is an ATP molecule formed? 1 point
- A) glucose to glucose-6-phosphate
B) Phosphoenol pyruvate to pyruvate
C) 3-phosphoglycerate to 2-phosphoglycerate
D) Fructose-6-phosphate to fructose-1,6-bis phosphate
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B)
- 9) Human hemoglobin exists as: 1 point
- A) monomer B) dimer C) trimer D) tetramer
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D)
- 10) The A chain and B chain of insulin are linked by: 1 point
- A) Electrostatic interactions
B) disulphide linkages
C) Hydrophobic interactions
D) Peptide linkage
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B)
- 11) A "codon" is referred to 1 point
- A) Two amino acids B) Three amino acids
C) Three nucleotides D) Two nucleotides
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C)
- 12) The isoelectric point (pI) of a protein is 8.8. At a pH of 7, the protein will be 1 point
- A) Positively charged B) Negatively charged
C) Neutral D) Denatured
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)
- 13) Exopoly saccharides (EPS) is present in 1 point
- A) Parasite B) Bacteria
C) Fungus D) virus
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B)
- 14) All the proteins are synthesized in 1 point
- A) Endoplasmic reticulum B) Nucleus
C) Golgi apparatus D) cytoplasm
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D)
- 15) Alpha-helix and Beta-sheet structures are present in 1 point
- A) Proteins B) Nucleic Acid
D) Fatty Acids D) Carbohydrates
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)
- 16) Penicillin inhibits the synthesis of the cell wall of 1 point
- A) Parasites B) Plant
C) Fungus D) Bacteria
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D)
- 17) All the cell surface proteins generally have 1 point
- A) at least one transmembrane domain
B) leader or signal peptide
C) Both A and B
D) Neither A nor B
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
C)
- 18) Which is NOT true for signal peptide 1 point
- A) It is generally present in the N-terminal of the protein
B) It is hydrophobic in nature
C) Followed by a proteolytic cleavage site
D) It is hydrophilic in nature
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
D)
- 19) In SDS-PAGE protein is separated according to their 1 point
- A) Charge only B) Mass only
C) Both Charge and Mass D) Three dimensional conformation
- A)
 B)
 C)
 D)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
B)
- 20) Protein-protein interactions are mostly by non-covalent interaction. 1 point
- A) True B) False
- A)
 B)
- No, the answer is incorrect.
Score: 0
Accepted Answers:
A)