



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



WORK SHEET – 40

Class: XII

Sub: Biological Science

Date: 22.08.2020

Topic: Ch 6 (part 7) Protein Synthesis – Machinery of Translation and Initiation

F.M. : 15

Choose the correct option:

(1x15=15)

1. The process of formation of a polypeptide from mRNA molecule is called :
a) Transcription b) Translation c) Reverse transcription d) post transcriptional changes
2. ----- act as the protein factories during translation.
a) Mitochondria b) Nucleus c) Ribosomes d) all of these
3. ----- acts as an adaptor molecule to carry amino acids.
a) mRNA b) tRNA c) rRNA d) DNA
4. The raw material for translation is:
a) Ribonucleotides b) amino acids c) deoxyribonucleotides d) none of these
5. In RNA viruses the process of formation of DNA from RNA is called -
a) Transcription b) reverse transcription c) reverse translation d) all of these
6. The following is used as the source of energy during translation :
a) ATP b) GTP c) Both ATP and GTP d) CTP
7. The process where the t RNA gets loaded with the specific amino acid is called-
a) Loading b) Uploading c) Charging d) All of these
8. The enzyme required for the activation of amino acids and charging tRNA is-
a) Pyrophosphate b) ATPase c) amino acyl tRNA synthetase d) Peptidyl transferase
9. The tRNA molecule without the amino acids is called -
a) Uncharged RNA b) Mischarged RNA c) charged tRNA d) none of these
10. The process when the small sub unit of ribosome combines with the large sub unit it is called -
a) Dissociation b) assembly c) association d) none of these
11. For association of ribosomes following cofactors is required:
a) Calcium b) Sodium c) Zinc d) Magnesium
12. A ribosome consists of the following reactive site-
a) P- site b) A- site c) E- site d) all of these
13. The initiation factor which identify the location of N-formylmethionine tRNA^{f-met} in the P-site is-
a) IF-1 b) IF-2 c) IF -3 d) IF -4

14. The pre- initiation complex of translation consists of -
a)GTP and initiation factors b) mRNA c) 30S sub unit d) all of these
15. The ribosomal binding site on the mRNA is the leader nucleotide sequence .It is called-
a) Pribnow box b) Shine – Dalgarno sequence c) Leader sequence d) All of these

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