

VU Medical Zone

ZOO 505 Final Terms M.C.Q Fall 2020

1. _____ has revolutionized the biological sciences as well especially in the fields of Health Sciences and Agricultural Sciences. **Molecular Biology**
2. Membranes are lipid-protein assemblies in which the components are held together in a thin sheet by _____ bonds. **Non-covalent**
3. More than _____ percent of the membrane's carbohydrate is covalently linked to proteins to form glycoproteins. **90**
4. For each ATP hydrolyzed, three sodium ions are pumped out as _____ potassium ions are pumped in. **Two**
5. Intermediate filaments are a chemically heterogeneous group of structures that, in humans, are encoded by approximately _____ different genes. **70**
6. An E. coli chromosome is estimated to have about _____ super-coiled loops. **400**
7. Which one of the following is an important stabilizing force in the chromatin? **Electrostatic force**
8. Which process is the basic process that ensures the continuity of life? **Cell division**
9. Which model for DNA replication proposed that the two parental strands separate and that each then serves as a template for a new progeny strand? **Watson-Crick**
10. The new DNA strand directed by this template is known as _____. **Lagging strand**
11. Number of Origin of replication is depends upon the _____. **Organism**
12. The center sequence of central dogma _____. **DNA-RNA-Protein**
13. Bacteria have only a single RNA polymerase, whereas eukaryotic cells have _____ RNA polymerases. **Three**
14. A _____ is the DNA sequence that initially binds to the RNA polymerase. **Promoter**
15. Non coding region in the mRNA is called _____. **Intron**
16. The sequences called _____ trigger the elongating polymerase to dissociate from the DNA and release the RNA chain. **Terminators**
17. There are 27 of these repeats in the yeast Pol II CTD, _____ in the worm *Caenorhabditis elegans*, _____ in the fly *Drosophila*, and _____ in humans. **32, 45, 52**

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18. Crystal structure of the head module of yeast Mediator reveals that it contains _____ subunits. **7**
19. Which one of the following is factors is required factors? **SL1 and UBF**
20. _____stimulating transcription from the core promoter by recruiting Pol I. **SL1**
21. Which one of the following is stop codon? **UAA**
22. ORF stands for_____. **Open frame reading**
23. Transfer RNA accounts for some_____ of all cellular RNA. **10%**
24. The _____is the binding site for the aminoacylated-tRNA. **A-site**
25. Common mechanism used by many proteins to stimulate _____attack of carbonyl groups. **Nucleophilic**
26. _____are removed during RNA maturation. **Introns**
27. RNA Polymerases function only in the presence of_____. **DNA**
28. The space in the active center cleft, which may be occupied either by region 1.1 or by DNA, is highly _____charged. **Positively**