Total No. of Printed Pages: 2

SUBJECT CODE NO: - SS-6530 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Zoology) (Sem-II) Examination May / June - 2023 Cell and Molecular Biology-ZOO-202

[Tim	e: 3:00 Hours] [Max. Marks: 80 Please check whether you have got the right question paper.
N. B	 Question paper is divided in PART-A and PART-B. PART-A is compulsory Attempt any five questions from the PART-B. Draw well labelled diagrams wherever necessary.
	PART-A
Q1	Attempt the following multiple choice questions: 1. The tightly packed form of DNA is called as a) Super coiling b) Compressed state c) Euchromatin d) Heterochromatin
	2. When molecule receives the helical stress by twisting around itself than the phenomena is called asa) Coilingb) Super coilingc) Elongationd) Compression
	3. Condensation of chromosome occur in a) Prophase –I b) Prophase-II c) Anaphase d) Metaphase
	4. The spindle fibers are made up of a) Cellulose b) Lipids c) Pectin d) Proteins
	 5. The secretory proteins are synthesized by a) Free ribosomes b) Ribosome and endoplasmic reticulum c) Ribosome and nuclear membrane d) All of above
St.	 6. Which of the following statement is true about exocytosis? a) It helps in the intake of large material by the cell b) It occur without help of any cell organelle. c) It is a form of active transport d) It does not require energy
	 7. The type of coiling in DNA isa) Zig –zag b) Left handed c) Opposite d) Right handed 8. The structure of chromatin can be modified by
	a) Methylation b) Acentylation c) Phosphorylation d) All of above

	9. Signia factor is component of	
	a) DNA ligage b) DNA polymerase	
	c) RNA polymerage d) Endonuclease	O _X
	10. The process of modification of pre mRNA is known as	Y
	a) Replication b) RNA processing c) DNA processing d) Translation	
	PARTB	
	(Attempt any five)	
Q2	What is signaling? Describe in detail cell signaling	12
Q3	Describe in detail about major protein-sorting pathway in eukaryotes.	12
		, P
Q4	Describe in detail the replication of DNA.	12
ζ.	Describe in detail the representation of BTV1.	, 12
Q5	Differentiate the chromatin with Nucleosome	12
Q5	Differentiate the chromatin with Nucleosome	12
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Q6	Give an account on translation process in eukaryotes.	12
Q7	Describe in detail the mRNA stability.	12
Q8	Write notes on (any two)	12
	a) Central dogma	
	b) Genome sequence	
	c) Endocytosis	