

(B) Attempt any **one** out of two from the following:

In human body which cell can change shape? Mitochondrion of Fungi is having which type of

- (1) Draw fluid Mosaic model.
- (2) Define Cell

organals

(3)

(4)

- (C) Attempt any **one** out of two from the following: 3
 - (1) Chromoplast and leucoplast
 - (2) Explain Cell Theory with postulates
- (D) Attempt any **one** out of two from the following: 5
 - (1) Explain Ribosomes
 - (2) Explain structure and function of nucleus

2

2	The	following questions from Unit -2:		14
	(A)	Attempt the following objective Questions:		4
		(1)	What is the name of the protein that helps to regulate multiple checkpoints throughout the cell cycle and is also known as the "guardian of the genome"?	
		(2)	and are special types of chromosomes are available.	
		(3)	Write name of histone protein present Eukaryotic chromosome.	
		(4)	Homo sapiens sapiens has pairs of chromosomes.	
	(B)	Atte	empt any one out of two from the following:	2
		(1)	What is Giant size chromosome? Give examples of it.	
		(2)	Explain Solenoid model of DNA.	
	(C)	Atte	empt any one out of two from the following:	3
		(1)	Describe how structure of double helix DNA proposed by Watson and crick	
		(2)	Extracellular matrix	
	(D)	Attempt any one out of two from the following:		5
		(1)	Give details of Chromosome structure and types	
		(2)	Describe cell cycle regulation	
3	The	e following questions from Unit-3:		
	(A)	Attempt the following objective Questions:		4
		(1)	In eukaryotic cells, mature RNA is formed by the Removal of exons The "Central Dogma" of protein synthesis can be occurred> transcription> RNA>	
		(2)	Which DNA polymerase removes RNA primers in DNA synthesis?	
		(3)	The protein andinvolved in mismatch repair in Ecoli.	
		(4)	During which phase of the cell cycle is DNA replicated?	

	(B)	Attempt any one out of two from the following:		
		(1)	What are okazaki fragments?	
		(2)	Define bidirectional and unidirectional DNA replication.	
	(C)	Atte	empt any one out of two from the following:	3
		(1)	Properties of DNA	
		(2)	Explain the central dogma of life	
	(D)	Atte	empt any one out of two from the following:	5
		(1)	Explain the process of Replication in eukaryotes	}
		(2)	Explain DNA Repair mechanisms	
4	The	follo	wing questions from Unit-4:	14
	(A)	Atte	empt the following objective Questions:	4
		(1)	Third position in the codon is referred to as the position	
		(2)	Amino acids are attached to the arm of tRNA	
		(3)	'Eukaryotic mRNA is transcribed by RNA polymerase II. (True or False)	
		(4)	Transcribed regions present in mature mRNA are called while transcribed regions NOT present in mature mRNA are called	
	(B)	Atte	empt any one out of two from the following:	2
		(1)	What is Genetic Code?	
		(2)	Enlist types of RNA with function.	
	(C)	Attempt any one out of two from the following:		3
		(1)	Explain the post-translational modifications of protein.	
		(2)	Explain the post-transcriptional modifications of mRNA.	
MBI	-1603	2200	01020400] 3 [Con	td

	(D)	Attempt any one out of two from the following:		5
		(1)	Explain the process of Transcription in eukaryotes by RNA pol I	
		(2)	Explain Genetic code in detail	
5	The	e following questions from Unit -5 :		
	(A)	Attempt the following objective Questions:		
		(1)	is a unit of gene expression and regulation.	
		(2)	The lac operon is under positive control only. (True or False)	
		(3)	Genes that typically contribute to cancer through increased expression are	
		(4)	An operon is made up of,and genes.	
	(B)	Atte	empt any one out of two from the following:	2
		(1)	Components of operon	
		(2)	Process involves for causing of cancer	
	(C)	Atte	empt any one out of two from the following:	3
		(1)	Enlist and define control sequences	
		(2)	Explain different types of Transposable elements	
	(D)	Atte	empt any one out of two from the following:	5
		(1)	Describe carcinogen	
		(2)	Explain positive and negative regulation of gene expression by the lac operon.	