M. SC. (MEDICAL BIOTECHNOLOGY) SEM-III (CHOICE BASED CREDIT SYSTEM): SUMMER - 2018 SUBJECT: GENOMICS & PROTEOMICS

Day: Date:		Thursday 5/04/2018	S-2018-1172	Time: 02.00 PM TO 05.00 I Max. Marks: 60
N.B.:		_	5 2010 11.	
	1)	Q. No. 1 and Q. N	No. 5 are COMPULSORY. Ou	at of the remaining questions
		solve any TWO f	from each section.	В 1
	2)) Figures to the righ	nt indicate FULL marks.	
	3)	Answers to both t	he sections should be written in	n SEPARATE answer book.
			SECTION-I	
Q.1		Define:		(10
		i) High resolution map)	ii) Line
		iii) ENTREZ		iv) GDB
		v) OMIM		.,, 622
2.2		Differentiate between:	(Any TWO)	(10
	a)	Genetic mapping and		(10
	b)	Mouse genome and ex		
	c)	Linkage map and radia	-	
_				
2.3	- \	Write short notes on: ((Any FOUR)	(10
	a)	SNP		
	b)	Polymorphic markers		
	c)	HUGO STS		
	d) e)	UCSC Browser		
	,			
).4		Answer the following:	(Any TWO)	(10
	a)	Describe the silent fea	tures of HGP.	
	b)	Explain with neat labe	led diagram of Eukaryotic gen	e structure.
	c)	Explain the Pseudo ge	nes Theory.	
			SECTION-II	
2.5		Give two examples of	:	(10)
	a)	Literature databases		
	b)	Transposable elements	3	
	c)	EST		
	d)	Phylogenetic comparis		
	e)	3D structure visualizat	tion tools	
2.6		Answer the following:	(Any TWO)	(10
	a)		y Trasncriptomics? Explain in	
		example.		
	b)		Microarray technology.	
	c)	Describe in detail RNA	A chips.	
.7		Write notes on: (Any 7	ΓWO)	(10
	a)	CATH	•	(,
	b)	BLOCK		
	c)	SCOP		
.8		Explain the protein Ex	pression Analysis methods in o	detail. (10
-		• •	OR	(10)
		Write Automation of biomedical field.	proteomic analysis. Enlist its	applications in clinical and

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