VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.)

(2014 Admis	sion Onwards) SE IN ZOOLOGY		ed (ä) wehA IV
6B10 ZLG : Molecular B	iology and Bioinf	ormatics	
Time: 3 Hours		Max.	Marks: 40
Instruction : Answer may be write illustrations where e	ten either English o ver necessary.	or Malayalam	: Give
	ION – A ar Biology)		
Answer any one: Describe any two experiments to part of the control of t	olved in protein synt prove that DNA is th	hesis. e genetic mat	8 terial.
II. Answer any one :3) Explain Genetic engineering.4) Write short note on Genetic Code.			(E
 III. Answer any three : 5) Lytic and lysogeny Cycle. 6) DNA repair. 7) Cistron and Muton. 8) Reverse transcription. 9) Mitochondrial Genome. 			
IV. Answer two of the following: 10) Non sense codon is a) UAA b) AUG 11) Which is called precursor of m RN a) hn RNA c) soluble RNA	c) UUU A ? b) sn RNA d) Both a and d	d) CGA	(2×1=2)
 12) The process of formation of m RN/a) Translation c) Reverse transcription 		d n	
13) Number of hydrogen bonds between a) 4 b) 3	en guanine and cyto c) 2	sine d) 1	

K19U 0151



SECTION – B (Informatics and Bioinformatics)

14) E	swer any one Explain various Describe on DI	: s Data Base Search e NA sequencing and it	ngines. s applications.	VI Semeste
16) [swer any one Make a detaile Describe the re	: d note on metabolite ole of internet in Bioin	data bases. formatics.	4 5B10 Z1 5B10 Z1 5B10 Z1 5B10 Z1
VII. An 18) 19)	swer any thre Metabolomics. BLAST. Swiss prot.	ten wither English: 9	nswer may be writ ustrations where e	(3×2=6)
	EMBL. INFLIBNET.	ritings minima of boxto		1 Answer any one III Explain the var
23)	swer two of t GeneBank is a) NCBI	he following : run by b) EMBL ollowing is a seconda	c) EBI	(2×1=2)
25) 26)	a) PRINTS	following is a protein s b) NCBI	C) 1 11 1	d) All these e? d) None of these
(2x1=2	a	A Primar Database	B Printer	9) Mitochandest IV. Answer two of th
	b	Out put Device	2D PAGE	10) Non-sense co-

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Primar Database	Printer
	2D PAGE
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249117 (12. (42.)	Higgins
	A Primar Database Out put Device FASTA Proteomics

12) The process of formation of m BNA from DNA is called at Transcription