

शैक्षणिक खण्ड, शाहपुर, ज़िला काँगड़ा, हिमाचल प्रदेश - 176206 Academic Block, Shahpur ,Distt. Kangra (HP) - 176206 Website: www.cuhimachal.ac.jn END-Term Examinations, June-2023

CENTRE FO	R COMPUT.	ATIONAL BI	OLOGY AND	BIOINFORMATICS	
Course: M.Sc. Bioinfor	matics Sub	ject: Comput	ational Genom	ics and Protocomics	
Semester;2	Course	Code:BIN466		ximum Marks: 60	
Credit: 2			1777070	ime: 2 H: 00 M	
1. Section -A (All	Questions ar	e COMPULS	ORV)	(10 X 1= 10 M)	
Q1). ANSWER ALL TH	E FOLLOWI	NG QUESTIO	NS	(10 X 1-10 M)	
1. Define Pro	tein folding?				
II. Define Ger					
III. Proteomics					
(a) Set of pr	oteins in a sp	ecific region o	of the cell (1) Biomolecules	
(c) Set of pr	oteins	(d) The e	ntire set of exp	ressed proteins in the cell	
IV. In OMIM th	e asterisk (*)	before an ent	ry number indi	cates	
V. Which of the	e following is	s not correct al	bout the Coils a	and Loops?	
a) They are i	rregular struc	ctures b)	They are regu	lar structures	
c) If the conr	ecting region	ns are complet	ely irregular, tl	ney belong to random coils	
d) The loops	are often cha	racterized by	sharp turns or l	nairpin-like structures	
VI. Which of the fo	llowing is no	ot a form of R	NA?		
a) tRNA	b) rRNA	c) mRNA	d) qRNA		
VII. The peptide for	mation invo	lves two amin		ntly joined together between	
carboxyl group of or	ne amino aci	d and the ami	no group of an	other True (or) False?	56
VIII. Which of the g	iven stateme	nts is incorrec	17	and rate (of) Paise;	
				of either sequence or struct	
Similarity		T. T	on the basis	of either sequence or structi	ıral
V2.	n comprise -		4 VILO 2		
b) Proteins often	c	separate doma	ins c) Protein	s are modular	
d) The number (of protein se	quences that	are available i	s insufficient to determine	that
domain shuffling					
IX). Difference betw	een the sync	onymous and	non-synonym	ous mutations	
X). NusG have how i	nany function	onal known s	ubunits		
7 A S A S A S A S A S A S A S A S A S A) 2	(c) 3	(d) 4		
8.3		(0) 5	(u) 4		





हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

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Section -B(Attempt any FOURQuestion)

 $(4 \times 5 = 20 \text{ M})$

Q2). Write a short notes on DNA-protein interactions during the transcription?

Q3). Differences between the Prokaryotic and Eukaryotic transcription?

____Q_4). Discuss briefly about the m-RNA processing in the Prokaryotes

Q5). Write about mRNA Splicing

(16). Write about the role of t-RNA in protein synthesis

(17). Discuss the role of Ribosomes in protein synthesis

Section - C (Attempt any FOUR Question)

(4 X 7.5= 30 M)

-Q8). Discuss briefly about the Post-Translation modification?

99). What is mean by transcription and write briefly about Eukaryotic transcription steps?

Q10). Write briefly about the any methods Eukaryotic m-RNA processing.

Qt1). Discuss briefly about the OMIM

Q12). What is meant by genome mapping and discuss different methods

Q13). Write briefly about the one peptide finger printing database