## B. SC. BIOCHEMISTRY Fifth Semester COMPUTER APPLICATION AND BIOINFORMATICS (BBC -23)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) = 20 Part-B (Descriptive) = 50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

- I. Answer any five of the following questions
- 1. a) Define Windows. Name the versions of windows family.

b) What are the main elements of windows. Explain them .

5

2. Apply the Needleman and Wunusch alignment to determine the best alignment for the following sequence. (Fill only the table)

10

ATTCA TCA

3. "Bioinformatics is multidisciplinary subject" Explain. What are the various scope of Bioinformatics?

5+5=10

4. What are the first generation, second generation and third generation computers, write briefly about them.

10

5. Write note on (any two)

5x2=10

a) NCBI

b) TrEMBLE

c) DDBJ

d) Swiss Prot

PTO

- a) Draw the processor and memory architecture of a computer system.
  b) Name two nucleotide database with their URL
  c) Name two protein database with their URL
- 7. Describe the process and types of RAM and write briefly on ROM.

  5+5=10
- 8. What are the tools of Bioinformatics? Explain each briefly with example.

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Duration: 20 minutes	Marks - 20		
(PART	A - Objective Type)		
I. Choose the correct answer:	1x15=15		
1. HTML stands for			
a) Hyper Text Markup La	anguage b) High Text Markup Language		
c) Hyper Tabular Markup	Language d) None of these.		
2. The brain of any computer s	ystem is		
a) ALU	b) Memory c) CPU		
d) Control Unit	e) None of the above		
3. Which chart can be created i	n MS-Excel?		
a) Area b) Line	c) Chart d) All of the above		
4. JPEG extension refers usual	ly to what kind of file		
a) System file	b) Animation/ movie file		
c) Image file	d) None of the above.		
5. Type of storage that is use processing is	d for holding information between steps in its		
a) Primary Storage	b) Intermediate storage		
c) Internal storage	d) CPU e) None of the above		

6. With regards to Email	addresses			
a) They must alway	ys contain an (	@ symbol		
b) They can never of	contain spaces			
c) They are case ins	sensitive			
d) All of the above				
7. Which computer is des	signed to be as	s compact as p	ossible	
a) Mini computer	b) Su	b) Super computer c) Micro comp		
d) Mainframe	e) No	e) None of the above		
8. Which device of comp	outer operation	dispenses wit	h the use of key board	
a) Mouse	b) Touch	c)	Light pen	
d) Joystick	e) None of	the above		
9. What does the .com do	omain represe	nts?		
a) Education domai	in b) Co	ommercial don	nain	
c) Network	d) No	one of the above	/e	
10. Among the following	g which is not	a search engin	e	
a) Google b) Bing c) Yahoo				
d) Askme.com	e) Omiga-j	olus.com		
11. The term bioinformat	tics was first in	ntroduced by H	Hwalim in	
a) 1986 b)	1987	c) 1988	d) 1989	
12. DDBJ is situated in				
a) US b)	UK	c) Swiss	d) Japan	
13. NCBI was established	d in			
a) 4th November 1988		b) 8th November 1988		
c) 4th November 1989		d) 8th November 1989		

14. Which among the	hem is the seque	nce analysis tool	
a) SPDV	b) BLAST	c) PRINT d) MEGA 5	
15. Which among the	hem is the struct	ure analysis tool	
a) SPDV	b) BLAST	c) PRINT	d) NCBI
ginin	on a tren or a		entro
II. Write the full form			1X5=5
16. EMBL:		2.(d) 1088918	
17. BLAST:	ovođe nistir spo <del>dile ca sajab a</del>		sansk dalety v
18. PRINT:		4500 i ed	ozuola se
19. KEGG:	evoda sibili	a szovi (s	birayat ib
20. NCBI:	Pahr	u men utemob men. s Luxur	er seeb mit W. Co.