B.Sc. (Part—I) Semester—II Examination 2S: BIOINFORMATICS

(Computer Fundamentals and Operating Systems)

Γim	ne : Th	ree l	Hour	rs]	•	[Maxim	ım Marks : 80	
	Not	e :	-(1)	All questions are compuls	sory.			
			(2)	Draw schematic represent	tation wherever	r necessary.		
١.	(A)	A) Fill in the blanks:						
	()	(i)		e main characteristic featur	e of 3 rd generat	ion computers was the us	se of	
		(ii)						
		` '		hexadecimal systems cons				
		(iv)	manages and controls the o	communication 2				
	(D)	between the various hardware and software components. Choose the correct alternatives:						
	(B)							
		(i)		what basis computers can				
				Operating principles		Applications		
		(::)		Size and Capability	` ,	All of the above		
		(ii) Cache Memory is used to transfer data between :(a) Main memory and secondary memory						
				•	•			
				Processor and an input d				
				Main memory and proces				
		G:::\	, ,	Processor and an output		onl rangemition devices ?		
		(ш)		nich of the following device MICR	-	OMR		
			(a)	OCR	` '	Microphone		
		(iv)	. ,	e number system with base	` '	•		
		(14)	(a)	•	(b)			
			` '	Octal system		Hexadecimal system	2	
	(C)	Δns		•	(u)	Tienadeennai system	2	
	(C)	Answer in one sentence each: (i) Who is known as the father of modern digital computers?						
		(ii) What is the function of a control bus in a computer system?						
				which type of ROM, data	•			
				T is an abbreviation of?	vali oo wiiitoi.	. omy once .	4	
2	(A)		4					
	(B)							
	(C)	Describe the classification of storage system. What are scanning devices? Explain the basic characteristics of these devices. 4						
	()							
	(P)	OR) Differentiate between an assembler and an interpreter.						
	(Q)							
		2 Service and impact primer and non-impact primer Gree one chample of						
	(R)	Exp	olain	:				
		(i)	Bir	nary to Octal conversion				
		(ii)	Bir	nary to Hexadecimal conver	sion.		4	
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3.	(A) Give three different text formatting tabs used in MS-Word.	4
	(B) What is mail-merge? Explain.	4
	(C) Explain the use and importance of My Computer icon on Desktop.	4
	OR	
	(P) Explain Tabs and Indentation in MS-Word.	4
	(Q) Give various operations done on Files and Folders.	4
	(R) Explain any four features of Windows Desktop.	4
4.	What is MS-EXCEL? Explain in detail features of MS-EXCEL with reformatting worksheet, inserting data and entering mathematical formulas.	spect to creating and
	OR	
	Define Internet. Describe in detail types of internet connections.	12
5.	Define Operating System. Explain in detail features of Unix Operating System. Unix.	t <mark>em and</mark> file system in
	OR	
	Describe in detail process scheduling, memory management and execution an in Unix.	d terminating program
6.	(A) Draw the layered structure of Linux.	4
	(B) Explain, how different processes communicate in Linux.	4
	(C) How security is important in Linux File System?	4
	OR	
	(P) What is Swapping? Explain.	4
	(Q) Explain the memory management process in Linux.	4
	(R) State and explain functions of Kernel in Linux.	4
7.	(A) Explain the advantages of networking in Computer System.	4
	(B) Explain the star topology.	4
	(C) What are network protocols? Give two examples.	2
	OR	
	(P) Explain bus topology.	4
	(Q) Explain seven layered OSI model.	2
	(R) Give and explain different types of computer networks.	2