B.Sc. Part-I Semester-II Examination

2S: BIOINFORMATICS

				(Computer Fur	idamentals and O)p	perating Systems)	
Time : Three Hours]							[Maximum Mark	cs:80
	Not	e :-	-(1)	Attempt all question	15.			
			(2)	Question No. 1 is o	compulsory and ca	rr	ries 8 marks.	
1.	(A)	Fill	in th	e blanks :—				2
		(i)	DV	D stands for	·			
		(ii)	AS	CII stands for	·			
		(iii)	TC	P/IP stands for	·			
		(iv)	MA	N stands for	·			
	(B)	Cho	ose 1	the correct alternative	e :			2
		(i)	The	programs and instru	ctions that help the	2 (computer in carrying out their proce	essing
			are	known as:				
			(a)	Hardware	(b)		Software	
			(e)	Data	(d)		None of the above.	
		(ii)	Wh	ich of the following	is not a type of bu	S	used in the computer system?	
			(a)	Data bus	(b)		Address but	
			(c)	Information bus	(d)		Control bus	
		(iii)	Wh	ich of the following	is not a type of ma	g	netic storage system ?	
			(a)	Magnetic tape	(b)		Compact disk	
			(c)	Hard disk	(d)		Floppy disk.	
		(iv)	The	4-bit binary equival	ent of the decimal	n	umber 6 is :	
			(a)	0111	(b)		1000	
			(c)	0010	(d)		0110	
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	(C)	Answer the following in one sentence each :	4
		(i) What is meant by optical recognition?	
		(ii) State the characteristics on the basis of which the efficiency of a printer can be measured.	red.
		(iii) What is the weight of digit 5 in the decimal number 9536?	
		(iv) Name any three types of operating system.	
2.	(A)	Explain how general purpose computers are different from special purpose computers.	4
	(B)	What do you understand by tracks and sectors on the surface of a magnetic disk?	4
	(C)	Differentiate between an impact printer and a non-impact printer. Give one example	e of
		each.	4
		OR	
	(P)	Explain in detail the concept of hexadecimal number system.	4
	(Q)	Explain the different technologies used in touch screens.	:1
	(R)	Explain how data is transfered from processor to an output device within a compu	iter
		system.	4
3.	(A)	Write the steps to change background color of the desktop.	4
	(B)	Explain the use of Recycle bin. How the deleted files can be recovered from	the
		recycle bin ?	4
	(C)	Explain the use of hyperlink in the Word document.	4
		OR	
	(P)	Explain:	
		(i) Control Panel	
		(ii) Windows Explorer.	4
	(Q)	Explain spell check and grammar features in MS Word.	4
4.	(\mathbb{R})	Write the steps to copy and move a file using Windows Explorer.	4
	(A)	Explain the different ways of starting MS-Excel from computer system.	4
	(B)	What is the difference between mathematical formula and functions in MS-Excel ? Give	one
		example of each.	4
	(C)	Explain the various advantages of Electronic mail.	4
		OR	
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	(P)	Write the procedure to create charts in MS-Excel.	4
	(Q)	Explain:	
		(i) FTP (ii) HTTP.	4
	(R)	Explain the features of Internet Explorer.	4
5.	(A)	Explain the important features of Unix OS.	4
	(B)	Explain the commands in Unix with one example each:	
		(i) ed	
		(ii) <i>l</i> n.	4
	(C)	Explain the process states in Unix OS.	4
		OR	
	(P)	Explain the file system in Unix OS.	4
	(Q)	Explain how to execute and terminate a program in Unix OS.	4
	(R)	How a memory management task is achieved in Unix OS?	4
6.	(A)	Explain design principle of Linux OS. How inter process communication takes place in it	?
			6
	(B)		6
		OR	
	(P)	State and explain functions of kernel in Linux OS. How security is implemented in the system? Explain.	is 6
	(Q)	Draw layered structure of Linux. Add a note on process system.	6
7.	(A)	What is network topology? Explain. Give difference between Bus topology and Ring topolog	y. 6
	(B)		6
		OR	
	(P)	What is the difference between LAN and WAN? Explain Star topology with suitable	e
			6
	(Q)	How the network protocols helps in the communication of menages over the network?	6
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