B.Sc. (Part-I) Semester-I Examination

COMPUTER SCIENCE OR COMPUTER APPLICATION OR INFORMATION TECHNOLOGY-I (NEW)

(Fundamentals of Information Technology and C Programming)

Time	: T	hree	Hours]			[Maximum Marks :	80
N.B.	:	(1)	All questions are compulsory.				
		(2)	Question No. 1 carries 8 marks and a	ll ot	her questions ca	arry 12 marks each.	
		(3)	Assume suitable data wherever neces				
1. ((A)	Fill	in the blanks:				
		(i)	Functions which are designed and de function.	velop	ed by program	mer are called as	
		(ii)	HTTP stands for				
		(iii)	MODEM stands for				
		(iv)	Scanner is device.				2
((B)	Cho	ose the correct alternative:				
		(i)	The lowest storage unit to measure i	nemo	ory is:		
			(a) Mega byte	(b)	Nibble		
			(c) Binary digit	(d)	Byte		
		(ii)	Comments in C is started and ended	with	ı:		
			(a) // /*	(b)	*/ */		
			(c) /* /*	(d)	/* */		
		(iii)	Which of the following is NOT a lo	op st	atement?		
			(a) while	(b)	do-while		
			(c) switch	(d)	for		
		(iv)	The symbol used in flowchart for de	cisio	n making is :		
		40	(a) Rectangle	(b)	Circle		
			(c) Parallelogram	(d)	Diamond		2
(C)	Ans	wer the following in one sentence:				
		(i)	Define Operating System.				
		(ii)	Define topology.				
		2000	What is Operator?				
		12 12 X	What do you mean by entry-controlle		A 31 (6)		4
2. (ii 61		erentiate between impact and non-imp	oact p	orinter.		6
((B)	Exp	ain the characteristics of computer.				6
			OR				

3.	(A)	Differentiate between RAM and ROM.	6		
	(B)	Explain why secondary memory is required. Draw a block diagram of computer a explain functions of each unit.	ind		
4.	(A)	Explain rename, append, close, write operations on files.	6		
		Explain the concept of online and real time operating system.	6		
	(2)	OR			
5.	(A)	Explain with suitable examples file naming with respect to file handling. Expl	ain		
		protection, password and Read only flag attribute.	6		
	(B)	Define operating system. What are its objectives? Explain time sharing O.S.	6		
6.	(A)	Differentiate between LAN and WAN.	6		
	(B)	Explain and draw diagram showing arrangement of nodes in mesh topology with so	me		
		advantages and disadvantages.	6		
		OR			
7.	(A)	Explain the concept of FTP, HTTP.	6		
	(B)	Explain with diagram Ring topology.	6		
8.	(A)	Write an algorithm and draw a flowchart to exchange contents of two variables us	ing		
		third variable.	6		
	(B)	Describe the complete structure of C program with suitable example.	6		
		OR			
9.	(A)	Explain the concept of the terms - Assembler, Interpreter and Compiler.	6		
	(B)	Write an algorithm and draw a flowchart to check if the number is divisible by 2	O		
10110		not.	(
10.	0.50	Explain implicit and explicit type conversion with suitable examples.	(
	(B)	Explain conditional operator with syntax and find out biggest number in give			
		numbers.	(
		OR			
11.		Explain with concept, syntax and suitable example symbolic constants.			
	(B)	What do you mean by pre and post increment operator used in C language? W	rite		
10	(4)	Suitable examples to support your answer.	-		
12.		Write a program in C to display first 5 odd numbers.	4		
	(B)	Explain with syntax and suitable example do-while () loop. OR	(
12	(4)				
15.	(A)	Write a program in C, to find the sum of numbers from 5 to 15 (using For stateme	111) F		
	(B)	Explain the working syntax and suitable example of while () loop	6		