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

# 1S : COMPUTER SCIENCE / COMPUTER APPLICATION / INFORMATION TECHNOLOGY—I (NEW)

#### (Fundamentals of Information Technology and C Programming)

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Time: Three	e Hou	ars]		[Maximum Ma	rks : 80	
<b>N.B.</b> : (1)	AL	L questions from questions num	nber	2 to 13 carry equal 12 marks.		
(2)	Que	estion 1 carries 8 marks.				
(3)	Ass	ume suitable data wherever nec	cessa	ry.		
1. (A) Fil	l in th	ne blanks :			2	
(i)		is a compulsory function in all C-programs.				
(ii)	i) DMP stands for					
(iii	) The	combination of 4-bits is called	d as			
(iv	) To :	To read a single character in 'C' function is used.				
(B) Ch	oose	the correct alternative :			2	
(i) The computer size was very large in:						
	(a)	First generation	(b)	Second generation		
	(c)	Third generation	(d)	Fourth generation		
(ii)	EEF	PROM stands for :				
	(a)	Electrically Erasable Programs	nabl	e Read Only Memory		
	(b)	Easily Erasable Programmable	Rea	d Only Memory		
	(c)	Electronic Erasable Programm	able	Read Only Memory		
	(d)	None of these				
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		(iii) Which fun	ction is mandatory	in C-progr	ram ?	
		(a) scanf	( )	(b)	main ( )	
		(c) start	( )	(d)	None of these	
		(iv) Inkjet prin	ter is :			
		(a) Impac	et printer	(b)	Non-impact printer	
		(c) Both	(a) and (b)	(d)	None of these	
	(C)	Answer the fol	lowing in one sent	tence :		4
		(i) What are	constants in C?			
		(ii) What is co	mpiler ?			
		(iii) What does	FAT stand for ?			
		(iv) What is ar	Operating system	?		
2.	(A)	Explain the ter	ins:			
		(i) Microcomp	outers			
		(ii) Mainframe	computers.			6
	(B)	What are the c	haracteristics of co	mputers ?	Explain.	6
				OR		
3.	(A)	Explain the ger	acrations of comput	ters.		6
	(B)	Explain the ter	ms:			6
		(i) ROM				
		(ii) RAM				
		(iii) Cache Mei	nory.			
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4.	(A)	Explain the different functions of an operating system.	6
	(B)	What is Batch processing ? Explain.	6
		OR	
5.	(A)	Explain the terms:	6
		(i) Real Time Systems	
		(ii) Multiuser.	
	(B)	Explain the file attributes used in file structure.	6
6.	(A)	What is Topology? Explain the Ring topology.	6
	(B)	Explain the TCP/IP and FTP internet protocols.	6
		OR	
7.	(A)	What do you mean by Computer Network? Explain the types of networks.	6
	(B)	What is Web Browser ? Explain Internet Explorer.	6
8.	(A)	What is 'C'-language used for ? Describe the history of 'C' with its features.	6
	(B)	What are Header files in C? Why it is required to include these in the program of C	
			6
		OR	
9.	(A)	Explain the structure of C-program with an example.	6
	(B)	What is an Algorithm? Write an algorithm to find the area of circle.	6
10.	(A)	What are constants in C? Explain symbolic constants in C.	6
	(B)	What is an operator in C? Explain the arithmetic, relational and logical operators w	/itl
		example.	6
		OR	
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11.	(A)	What is a conditional operator in C? Explain with an example.	6
	(B)	What is operator precedence in C ? Explain with suitable example.	6
12.	(A)	Explain the Switch-case statement in C. Write a program to perform basic arithmet operations using Switch-case statement.	tic 6
	(B)	Explain the nested if-else statement with example.	6
		OR	
13.	(A)	Write a program in C to calculate the factorial of a number.	6
	(B)	Explain the following statements with example:	6
		(i) getch()	
		(ii) getche	
		(iii) getchar.	