Code: AE102/AC102/AT102

Subject: COMPUTER CONCEPTS & C PROGRAMMING

AMIETE - ET/CS/IT (Current & New Scheme)

June 2018 Time: 3 Hours Max. Marks: 100 PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE OUESTION PAPER. NOTE: There are 9 Questions in all. • Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else. • The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination. • Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks. • Any required data not explicitly given, may be suitably assumed and stated. Choose the correct or the best alternative in the following: **Q.1** (2×10) a. How many bits is a kilobyte? (A) 8192 **(B)** 1024 **(C)** 8000 **(D)** 1000 b. Computer or system peripherals that receives data from processing unit are called (A) Receiver **(B)** Output devices (C) Analogue devices (**D**) Preprinted documents c. Process of reading data from permanent store and writing it to computer's main store is called (A) Saving data (B) Writing data (D) Reading data (C) Loading data d. Memory that is called a read write memory is (A) EPROM (B) Registers (C) ROM (D) RAM e. Communication between a computer and a keyboard involves ___ transmission (A) Automatic (B) Full-duplex **(C)** Half-duplex **(D)** Simplex f. MS-DOS was developed in (A) 1991 **(B)** 1971 **(C)** 1984 **(D)** 1961

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g. When double is converted to float, the value is?

		(A) Truncated(C) Rounded	(B) Depends on the compiler(D) Depends on the standard			
	h. The keyword 'break' cannot be simply used within					
		(A) if-else	(B) do-while			
		(C) while	(D) for			
	i.	Structures can be used to				
		(A) have pointers to structures	(B) hold different data types			
		(C) assign to one another	(D) All of the above			
	j.	Size of void pointer is				
		(A) 2 Byte	(B) 1 Byte			
		(C) 4 Byte	(D) 8 Byte			
		Answer any FIVE Question	s out of EIGHT Questions.	_		
		Each question ca	rries 16 marks.			
Q.2	a.	Write the advantages and disadvanta	ges of the different computer generations.	(8)		
	b.	Write the difference between impact	and non impact printer.	(4)		
	c.	What do you mean by pointing i devices.	nput device? Write some examples of suc	ch (4)		
Q.3	a.	Write a note on components of moth	erboard.	(4)		
	b.	What is an operating system? Write	the characteristic of an operating system.	(2+6)		
	c. Explain the General Structure of CPU.					
Q.4	a. Explain the basic structure of a C program.					
	b.	What are the program development	steps?	(4)		
	c.	What is the difference between Unix sy	stem and DOS system?	(4)		
Q.5	a.	What are C tokens? Explain all its ty	rpes with example.	(1+6)		
	b.	Write the properties of all storage cla	asses used in C language.	(6)		
	c.	What is a formatted and unformatted I/O	O function? Give an example for each type.	(3)		

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Q.0	without using addi	1		0	umu variable a	(4)	
	b. What is type casting? Explain all type of types castings with an example.						
	c. Write a C program	to accept a	a number and d	lisplay it in reve	erse order.	(4)	
Q.7	a. Write the difference between recursion and iteration.					(4)	
	b. Write a C program to pass an array as a function parameter and find the sum of the array elements.						
	c. What is a user define function? Mention some advantages. (2-						
Q.8	a. What is Entry Controlled and Exit Controlled loops in C language?						
	b. What are the differc. Write a C program using switch staten	to read the			C		
	Mark of a subject	80-100	60-70	50-59	40-49	39-0	
	Grade (based on 10)	Honors	1st Division	2nd Division	3rd Division	Failed	
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- Q.9 a. Write a C program to find whether the given string is present in the main string or not.(8)
 - b. Write a C program to remove duplicate elements from a given array. (8)