Code: AE102/AC102/AT102

**Subject: COMPUTER CONCEPTS & C PROGRAMMING** 

## **AMIETE - ET/CS/IT (New Scheme)**

Time: 3 Hours June 2019 Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION 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.

	rnative in the following:	(2
a. The ALU of a computer respo	onds to the commands coming from	
(A) Primary memory	(B) Control section	
(C) External memory	( <b>D</b> ) Cache memory	
b. What are the stages in the comp	ilation process?	
(A) Feasibility study, system de	sign and testing	
(B) Implementation and docume	entation	
(C) Lexical Analysis, syntax an	alysis, and code generation	
<b>(D)</b> None of these		
c. Which of the following is not a	n input device?	
(A) OCR	(B) Optical scanners	
(C) Voice recognition device	( <b>D</b> ) COM (Computer Output to Microfilm)	
d. The two kinds of main memor	y are:	
	ry are: (B) Random and sequential	
	•	
(A) Primary and secondary	<ul><li>(B) Random and sequential</li><li>(D) All of these</li></ul>	
<ul><li>(A) Primary and secondary</li><li>(C) ROM and RAM</li></ul>	<ul><li>(B) Random and sequential</li><li>(D) All of these</li></ul>	

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	g. What the following function call mean?				
	Strcpy(s1, s2); (A) copies s1 string into s2 (C) copies both s1 and s2	<ul><li>(B) copies s2 string into s1</li><li>(D) None of these</li></ul>			
	h. Explicit type conversion is known as				
	<ul><li>(A) conversion</li><li>(C) separation</li></ul>	<ul><li>(B) disjunction</li><li>(D) casting</li></ul>			
	i. By default a function returns a v	alue of type			
	(A) int	(B) Char			
	(C) void	<b>(D)</b> None of these			
	j. Which of the following is used				
	(A) 0 (C) /0	<b>(B)</b> \0 <b>(D)</b> None of these			
		(2) 210110 02 11100			
	•	estions out of EIGHT Questions. ion carries 16 marks.			
Q.2	a. Draw and Explain the Digital bl	lock Diagram of Computer.	(10)		
	b. Write short note on:		(6)		
		nent & Stepwise refinement nming	(-)		
Q.3	a. What is Operating System . Explain its Functions & Types of Operating System.				
	1 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(10)		
	b. Write notes on number system	and conversion codes	(6)		
Q.4	a With a neat block diagram expla	ain different steps of software development.	(12)		
<b>V</b>	an what a near eroon enagram enph	and different steps of software development.	(12)		
	b. Give the basic structure of a C program and explain it				
Q.5	a. State and explain formatted input-output statements and standard input-output				
	statements with example.		(10)		
	b. Distinguish between character of	constant and string constant.	(2)		
	c. What is typecasting? Explain w	ith suitable example.	(4)		
Q. 6	a. Summarise the different types of	of operators used in C language.	(10)		
	b. What is precedence and associa	atively of operators? Explain with examples.	(6)		

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**Q.7** a. Explain the difference between call by value and call by reference by using suitable example **(4)** b. Write a program to find factorial of a number: (12)i. Using without argument and without return function ii. Using without argument and with return function iii.Using with argument and without return function iv.Using recursion **Q.8** a. Write short on the following:-(10)(a) break and continue (b) nested if ,else if (d) for and while loop (c) switch b. Write a program to find gcd and lcm of two numbers **(6) Q.9** a. Write a C program to sort the given n names in ascending order **(8)** b. Explain the concept of two dimensional array with a C program for matrix multiplication **(8)**