ROLL NO.	

Code: DE53/DC53/ DE103/DC103

Subject: COMPUTER FUNDAMENTALS & C PROGRAMMING

## **DiplETE - ET/CS (Current & New Scheme)**

December 2016 **Time: 3 Hours** 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.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each

Q.1	Ch	Choose the correct or the best alternative in the following:		
	a.	The C language consists of n	umber of keywords.	
		( <b>A</b> ) 32	<b>(B)</b> 40	
	(	(C) 24	<b>(D)</b> 56	
	b. '	What is size of in 'C'?		
	(	(A) Operator	(B) Reserve Word	
	(	(C) Both (A) and (B)	( <b>D</b> ) Function	
	c. Y	Which is valid string function?		
	(	(A) strpbrk	(B) strlen	
	(	(C) strxfrm	( <b>D</b> ) strcut	
	d. (	C is a language.		
	(	(A) High Level	(B) Low Level	
	(	(C) Middle Level	(D) Machine Level	
	e. '	Which escape character can be used to begin a new line in C?		
	(	( <b>A</b> ) \a	<b>(B)</b> \b	
	(	(C) \m	<b>(D)</b> \n	
	f.	The operator && is an example for	operator.	
	(	(A) Assignment	(B) Increment	
	(	(C) Logical	( <b>D</b> ) Rational	
	g. ]	Header files in C contain		
	(	(A) Compiler commands	<b>(B)</b> Library functions	
	(	(C) Header information of C programs	( <b>D</b> ) Operators for files	
h.		In transmission, the channed devices at all times.	el capacity is shared by both communicating	
	(	(A) simplex	( <b>B</b> ) half-duplex	
	(	( <b>C</b> ) full-duplex	( <b>D</b> ) half-simplex	

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	i.	Which topology requires a central control (A) Mesh	(B) Bus	
		(C) Star	( <b>D</b> ) Ring	•
	J.	A computer for which processing is used to be done with help of microprocess called		
		(A) Microprocessor	(B) Microcomputers	
		(C) mega computers	(D) mega processor	
		Answer any FIVE Questions	_	
0.2		Each question carr	nes 16 marks.	<b>(0)</b>
Q.2	a.	Explain characteristics of computer.		(8)
	b.	Convert the following:- (i) $(153)_{10} = (?)_2$ (ii) $(952)_{10} = (?)_{16}$ (iii) $(6B9)_{16} = (?)_2$ (iv) $(1001001)_2 = (?)_{10}$		(8)
Q.3	a.	Explain impact and non-impact printer	in detail.	(8)
	b.	What are the advantages of high-level l		(4)
	c.	Explain function of operating system.		(4)
Q.4	a.	Explain component of microcomputer.		(8)
	b.	Explain the following: (i) LAN (ii) Transmission Mode in Computer ne	etwork	(2×4)
Q.5	a.	Explain the following: (i) Identifiers & Keywords in C (ii) getchar() & putchar() function		(2×4)
	b.	Explain operator precedence and associ	ativity in 'C'.	(8)
Q.6	a.	Explain switch statement with suitable of	example.	(8)
	b.	Explain the following: (i) While loop & Do_while loop (ii) Continue statement		(2×4)
<b>Q.7</b>	a.	Write a program to add two matrices.		(8)
	b.	Explain following string function: (i) strcpy() (ii) strlen()		(2×4)
<b>Q.8</b>	a.	Explain Call by value and Call by refere	ence in detail.	(8)
	b.	Write a program to represent a function	with argument and no returns value.	(8)
Q.9	a.	Explain following: (i) Pointer expression (ii) opening a file in file management		(2×4)
	b.	Write a program to explain array of point	nters.	(8)