Code: DE53/DC53/DE103/DC103

Subject: COMPUTER FUNDAMENTALS & C PROGAMMING

DiplETE - ET/CS (Current & New Scheme)

Time: 3 Hours June 2018 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, selecting TWO questions from part A and THREE questions from part B. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1	Choose the correct or the best alternative in the following:	(2×10)
V.1	choose the correct of the best afternative in the following.	(2/10

- a. Algorithm and flow chart help us to:-
 - (A) Know the memory capacity
 - **(B)** Identify the base of a number system
 - (C) Direct the output to a printer
 - (D) Specify the problem completely and clearly
- b. A nibble consists of:-
 - (A) One bit

(B) Four bits

(C) Eight bits

(**D**) Sixteen bits

- c. BCD stands for:-
 - (A) Binary Coded Decimal
- (**B**) Bit Coded Decimal
- (C) Binary Coded Digit
- (D) Bit Coded Digit
- d. WAN stands for:-
 - (A) Wap Area Network
- (B) Wide Area Network
- (C) Wide Array Net
- **(D)** Wireless Area Network
- e. MICR stands for:-
 - (A) Magnetic Ink Character Reader
 - (B) Magnetic Ink Code Reader
 - (C) Magnetic Ink Cases Reader
 - (**D**) None of these
- f. Which of the following special symbol is allowed in a variable name?
 - (A) * (asterisk)

(B) | (pipeline)

(C) - (hyphen)

- (**D**) _ (underscore)
- g. Which of the following correctly shows the hierarchy of arithmetic operations in C?
 - (A) / + * -

(B) / + * -

(C) + - / *

- **(D)** / * + -
- h. The keyword used to transfer control from a function back to the calling function is
 - (A) switch

(B) goto

(C) go back

(D) return

ROLL	NO.	

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	i.	What does the following declaration int (*ptr)[10]; (A) ptr is array of pointers to 10 into (B) ptr is a pointer to an array of 10 (C) ptr is an array of 10 integers (D) ptr is a pointer to array	egers	
	j.	` '	as a (B) double (D) far double	
		PART A (Compute Answer any TWO questions. Ea	· · · · · · · · · · · · · · · · · · ·	
Q.2	a.	Explain concept of algorithms.	*	(4)
	b.	Explain characteristics of computer	<u>.</u>	(4)
	c.	· · · · · · · · · · · · · · · · · · ·	(ii) (532) ₈ to binary (iv) (188) ₁₀ to hexadecimal	(2×4)
Q.3		Explain following: (i) Ink-jet printer (ii) Language translator (iii) Functions of operating system		(6) (6) (4)
 Q.4 a. Explain the component of microcomputer. b. Explain following: (i) www (ii) Data Transmission modes in Computer Networks 				(8)
				(4×2)
		PART B (C Pr Answer any THREE questions. E	-	
Q.5		Explain following: (i) Character set & Data types	(ii) getchar() & putchar() function (iv) Logical operator	(4×4)
Q.6	a.	Explain switch case statement with		(8)
	b.	Explain following: (i) while loop & do-while loop	(ii) goto statement	(4×2)
Q.7	a.	What is an array? Write a C program	m to sort the array in an ascending order.	(8)
	b.	* * * * * * * * * * * * * * * * * * * *	unctions: (ii) strcat() (iv) strcmp()	(2×4)
Q.8	a.	What is function and its type? Why	we need function?	(6)
	b.	Explain following: (i) Call by value	(ii) Call by reference	(5×2)
Q.9 a. Explain concept of pointer and benefits of using pointers.			efits of using pointers.	(8)
	b.	Explain following: (i) Types of files (ii) Reading fr	om and writing information to a file	(4×2)