ROLL NO.	

## Code: DE53/DC53 Subject: COMPUTER FUNDAMENTALS & C PROGRAMMING

#### **Diplete - ET/CS**

Time: 3 Hours

# **DECEMBER 2012**

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:	
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 $(2\times10)$ 

- a. What format is used to print an integer with the printf function?
  - (A) % y

**(B)** %z

(C) %d

- **(D)** % 1C
- b. If count =9, the value of group = (++count) + 5 is
  - **(A)** 10

**(B)** 12

**(C)** 11

- **(D)** 15
- c. Decimal to Binary conversion of 15 is
  - (A) 1010

**(B)** 1011

**(C)** 1111

- **(D)** 1001
- d. Mathematical functions are available in which header file in C
  - (A) stdio.h

(B) stdlib.h

(C) math.h

- (**D**) io.h
- e. Which statement is not valid?
  - (A) a pointer variable can be assigned the address of another variable
  - **(B)** a pointer variable can be assigned the value of another pointer variable
  - (C) a pointer variable can be initialized with null or zero value
  - **(D)** none of the above
- f. Indentify the correct declaration
  - (**A**) int COUNT[5] [4];
- **(B)** int SUM[10,10];
- (C) int GROUP(10) (10);
- **(D)** int Z(10,10);

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	<ul><li>(ii) Bitwise operators</li><li>(iii) Formatted input</li><li>(iv) Formatted output.</li></ul>	(4×4)	
Q.5	Discuss: (i) Keyword and identifiers		
	PART B Answer any THREE questions. Each question	carries 16 marks.	
	b. What is the need of computer communication net	work? (8)	
Q.4	a. Define minimum microcomputer configuration in brief. (8)		
	c. Write a note on the layer of UNIX operating syste	em. <b>(6)</b>	
	b. Discuss the compiling of high level language pro	gram. <b>(6)</b>	
Q.3	a. Discuss computer input units.	(4)	
	b. Describe the hexadecimal representation of numb	ers. <b>(8)</b>	
Q.2	Answer any TWO questions. Each question c  a. Explain the working of computer with stored pro-		
	(C) Frequently Transmitted Packet (D) None of		
	<ul><li>j. FTP means</li><li>(A) File Transfer Packet</li><li>(B) File Transfer Packet</li></ul>	asfer Protocol	
	(C) Output Computer Reader (D) None of	Character Recognition these	
	i. OCR stands for		
	(A) Actual parameters (B) formal p (C) dummy parameters (D) optional	arameters	
	The parameters in a function call are		
	<ul> <li>(A) a combination of computer hardware</li> <li>(B) a program which translates from one high-level language to another</li> <li>(C) a program which translates from one high-level to a machine level line by line</li> <li>(D) None of these</li> </ul>		
	g. AN INTERPRETER 18		

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Q.6 a. Describe the else if ladder with example. (8)

b. Explain *Do-While* statement with examples. (8)

Q.7 a. Discuss the initialization of two 'dimensional arrays'. (8)

b. How can you write the string to the screen? (8)

**Q.8** Discuss:

(i) No argument but no return value with example.

(ii) Function that return multiple values. (8+8)

Q.9 a. Discuss declaration of pointer variable with example. (8)

b. Describe the following:

(i) getc and putc functions

(ii) fprintf and fscanf functions

(4+4)