Code: DE53/DC53 Subject: COMPUTER FUNDAMENTALS &

Diplete - ET/CS

Time: 3 Hours

JUNE 2013

Max. Marks: 10

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)

- a. CD-ROM stands for
 - (A) Compactable Drive Read Only Memory
 - (B) Compact Data Read Only Memory
 - (C) Compact Disk Refer Only Memory
 - (D) Compact Disk Read Only Memory
- b. ALU stands for
 - (A) Arithmetic Logic Unit
- (B) Array Logic Unit
- (C) Application Logic Unit
- (**D**) None of these
- c. Which of the following is the first generation of computer?
 - (A) EDSAC

(B) IBM-1401

(C) CDC-1604

- (**D**) ICL-2900
- d. Second Generation computers were developed during
 - (A) 1949-1955

(B) 1956- 1965

(C) 1966-1970

(D) 1970-1990

- e. Access time is
 - (A) seek time + latency time
- **(B)** seek time
- **(C)** seek time latency time
- (**D**) latency time
- f. What will be output if you compile and execute the following C code? #include<stdio.h>

int main(){

printf("%d",sizeof(5.2));

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return 0;

(A) 2

(B) 4

(C) 8

(D) 10

- g. The Keyword endl
 - (A) Ends the execution of program where it is written
 - **(B)** Ends the output in cout statement
 - (C) Ends the line in program. There can be no statements after endl
 - (**D**) Ends current line and starts a new line in cout statement.
- h. What will be the output of the following statements? int i = 1, j; j=i----2; printf("%d",j);
 - (A) Error

(B) 2

(C) 3

- (**D**) -3
- i. Array passed as an argument to a function is interpreted as
 - (A) Address of the array
 - **(B)** Values of the first elements of the array
 - (C) Address of the first element of the array
 - **(D)** Number of element of the array
- j. The size of a structure can be determined by
 - (i) size of variable name
 - (ii) size of (struct tag)
 - (**A**) Only (i)

- (B) Only (ii)
- (C) Both (i) and (ii)
- (D) none of these

PART A Answer any TWO questions. Each question carries 16 marks.

- **Q.2** a. Why CPU is called brain of the computer? Draw the block diagram of a computer. **(6)**
 - b. Differentiate between a flow chart, algorithm and a program. **(4)**
 - c. Convert $(217)_{10}$ to Binary number.

(2)

Write a brief note on Error Detecting codes.

(4)

a. Explain the functioning of inkjet printer. 0.3

(6)

b. Discuss the various output units of a computer.

(6)

Q.9 a. What is the difference between array_name and & array_name? (4)

b. Give the difference between the followings: (8)

- (i) getw() and putw()
- (ii) fprintf and fscanf()
- c. Distinguish between (*m)[5] and *m[5].

(4)