

Time: 3 Hours

JUNE 2014

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)

- a. Which of the following devices can be used to directly image print text?
- (A) OCR (B) OMR
(C) MICR (D) All of these
- b. In latest generation computers, the instructions are executed
- (A) Parallel only (B) Sequentially only
(C) Both sequentially and parallel (D) All of these
- c. Who designed the first electronics computer – ENIAC?
- (A) Van-Neumann
(B) Joseph M. Jacquard
(C) J. Presper Eckert and John W Mauchly
(D) All of these
- d. Who invented the high level language ‘C’?
- (A) Dennis M. Ritchie (B) Niklaus Writh
(C) Seymour Papert (D) Donald Kunth
- e. What is the name of the display feature that highlights the screen which requires operator attention?
- (A) Pixel (B) Reverse video
(C) Touch screen (D) Cursor

Code: DE53/DC53 Subject: COMPUTER FUNDAMENTALS & C PROG.

f. The system unit of a personal computer typically contains all of the following except:

- | | |
|----------------------|---------------------|
| (A) Microprocessor | (B) Disk controller |
| (C) Serial interface | (D) Modem |

g. A computer program that converts an entire program into machine language is called a/an

- | | |
|-----------------|---------------|
| (A) Interpreter | (B) Simulator |
| (C) Compiler | (D) Commander |

h. A do - while loop is useful when we want that the statement within the loop must be executed?

- | | |
|--------------------|-------------------|
| (A) only once | (B) at least once |
| (C) more than once | (D) None of these |

i. Which of the following statement is used to take the control to the beginning of the loop?

- | | |
|--------------|-------------------|
| (A) exit | (B) break |
| (C) continue | (D) None of these |

j. What will be the output of following program?

```
#include<stdio.h>
int main( )
{
    int x=4;
    while(x==1)
    {
        x=x-1;
        printf("%d",x);
        x--;
    }
}
```

- | | |
|--------------------|-------------------|
| (A) 4 | (B) 1,2,3,4 |
| (C) Prints Nothing | (D) None of these |

PART A

Answer any TWO questions. Each question carries 16 marks.

Q.2 a. Discuss the characteristics of computers in brief. **(8)**

b. How can you represent character in computers explain? **(8)**

Q.3 a. Why do we need programming languages? **(8)**

Code: DE53/DC53 Subject: COMPUTER FUNDAMENTALS & C PROG.

- b. Discuss the UNIX operating system in detail. (8)
- Q.4** a. What is need for computer communication networks? (8)
- b. Write a note on internet and world wide web. (8)
-

PART B
Answer any THREE questions. Each question carries 16 marks.

- Q.5** a. Discuss various kind of data Type in C. (4)
- b. What do you mean by Relational operators? (4)
- c. Discuss the conditional operators. (4)
- d. Discuss WRITING A CHARACTER. (4)
- Q.6** a. Describe the simple if statement with example. (8)
- b. What do you mean by jumps in loops? (8)
- Q.7** a. Explain the declaration of arrays with example. (8)
- b. Explain the comparison of two strings. (8)
- Q.8** a. What do you mean by elements of user defined functions? (8)
- b. Write a note on the function that return multiple values. (8)
- Q.9** a. What do you mean by declaring pointer variables? (8)
- b. Write a note on Pointer expressions with example. (8)