Reg. No. | | | | | | | | | | | |

Question Paper Code : 51644

B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

First Semester

Civil Engineering

GE 2112/CS 16/080230001 – FUNDAMENTALS OF COMPUTING AND COMPUTER PROGRAMMING

(Common to All Branches)

(Regulations 2008)

Time : Three Hours **Maximum : 100 Marks**

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. List any two important characteristics of computer.
2. List some of the key hardware and software technologies of fifth generation computers.
3. What are the types of web browsers ?
4. List some of the internet applications.
5. List any four office packages.
6. Define algorithm.
7. What do you mean by 'C' Tokens ?
8. What does the following fragment print ?

```
for (int i = 0;i < 10;i + +)
{
        if (!(i%2)) continue;
        printf("%d\t", i);
}
```

9. Define Array.
10. What is the use of pointer ?

PART – B (5 × 16 = 80 Marks)

11. (a) Explain in detail about basic computer organization with a neat sketch. **(16)**

OR

(b) What are the applications of computer ? Discuss in detail about classification of computer. **(16)**

12. (a) (i) Explain in detail the types of computer software. **(8)**

(ii) Explain in detail the various steps involved in software development. **(8)**

OR

(b) (i) Explain the common types of internet access. **(6)**

(ii) Write short note on web browser. **(5)**

(iii) Explain a typical structure of URL. **(5)**

13. (a) (i) Explain the features of Microsoft Ward. **(10)**

(ii) Draw a flowchart to find the largest of three numbers. **(6)**

OR

(b) (i) Discuss the features of Microsoft Excel. **(8)**

(ii) What is pseudo code ? Explain its guidelines and benefits. **(8)**

14. (a) Explain all the arithmetic, relational, logical operators used in C language with necessary expressions as examples. **(16)**

OR

(b) Write a program in C language for listing and counting all the numbers divisible by 3 and not by 5 from 1 to 100. **(16)**

15. (a) Differentiate between the following concepts and give example for each :

(i) Structure and union **(8)**

(ii) Call by reference and call by value. **(8)**

OR

(b) (i) Discuss about functions in 'C'. **(4)**

(ii) Write a 'C' function to calculate the factorial of a given number and use it in the main program to calculate the binomial coefficient of a given number. Given binomial coefficient

$\binom{n}{k} = n! \div (k! \times (n-k)!)$ **(12)**