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**Question Paper Code : 52636**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

First Semester

Civil Engineering

GE 2112 – 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. State the characteristics of computers.
2. Convert binary to hexadecimal 1100101010011000
3. What are the various types of software ?
4. List out the software development life cycle process.
5. Define algorithm and how it differs from program ?
6. Draw the flowchart for computing factorial of 'n'.
7. Give any four examples from basic data types.
8. Write about the arithmetic and logical operators
9. Briefly write about array.
10. Distinguish between structure and union.



## PART – B

(5×16=80 Marks)

11. a) Explain generation of computers and its classification.

(OR)

b) Explain the different components of a computer with required diagram.

12. a) Explain software development life cycle in detail.

(OR)

b) Illustrate basic internet terminology and also explain how to get connection to internet application.

13. a) Draw the flowchart and write an algorithm to find the maximum value from given values.

(OR)

b) Define flowchart and explain guidelines for drawing a flowchart with necessary symbol.

14. a) Explain the structure of 'C' program with an example.

(OR)

b) Explain branching and looping with an example program.

15. a) List the types of functions and explain with suitable example.

(OR)

b) Explain call by value and call by reference in detail.