

Question Paper Code : 11432

B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2013.

First Semester

(Common to all Branches)

GE 2112/CS 16/080230001 — FUNDAMENTALS OF COMPUTING AND PROGRAMMING

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the classification of computers.
2. Convert the $(756)_{10}$ to octal and hexa decimal.
3. What are the various types of software?
4. What is a protocol?
5. What is a pseudocode?
6. Define : algorithm.
7. Write any four escape sequences in 'C'.
8. Distinguish between while.....and do...while statement.
9. What is a pointer?
10. Write any four features of arrays.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the characteristics of computers. (8)
(ii) Discuss the evolution of computers. (8)
Or
(b) Explain the basic organisation of computer with suitable block diagram. (16)
12. (a) Explain the steps of software developments with suitable examples. (16)
Or
(b) (i) Discuss the following internet terminologies
(1) Band width
(2) FTP
(3) IP Address
(4) Modem. (8)
(ii) Write some of the internet applications. (8)
13. (a) (i) Draw the flowchart for finding the roots of a quadratic equation. (8)
(ii) Write an algorithm to find the largest of three numbers. (8)
Or
(b) Discuss in detail about the features of office packages. (16)
14. (a) (i) Explain different data types in 'C' with examples. (8)
(ii) Discuss about bitwise operators and logical operators in 'C'. (8)
Or
(b) (i) Explain any four format string with examples. (4)
(ii) Write the syntax of "for construct" in C. Give an example. (4)
(iii) Write a C program to count the letters in a sequence of characters. (8)
15. (a) (i) Write a C program to sort the given set of numbers in ascending order. (8)
(ii) Discuss about any eight built-in functions. (8)
Or
(b) (i) Write the syntax of structure declaration in 'C' program. Give an example. (4)
(ii) Distinguish between structure and union. (4)
(iii) Write a C program to find the addition of two matrices. (8)