

Code No 9359 / N

FACULTY OF ENGINEERING & INFORMATICS**B.E. / B.Tech. I - Year (New)(Main) Examination, May / June 2015****Subject : Programming in C & C++****Time : 3 Hours****Max. Marks: 75****Note: Answer all questions from Part - A and answer any five questions from Part -B.****PART A (25 Marks)**

Convert the given Binary number into its equivalent Octal and Hexadecimal number systems. (2)

(i) 11101110 (ii) 10.11011101

- 2 Draw a flowchart to find the sum of any 'n' numbers. (3)
- 3 Write a code to find the all even numbers in any array. (3)
- 4 Write a code to print the Command line arguments. (2)
- 5 What is self referential pointer? Give example. (3)
- 6 Explain the random accessing of the file. (2)
- 7 What is use of default argument? (3)
- 8 What is destructor? (2)
- 9 What is the need of template functions? (2)
- 10 How static member of a class can be initialized and accessed. Give example. (3)

PART --13 (50 Marks)

- 11 (a) What are the components of the coMputr? Explain the functions of each component. (6)
- (b) Write a program to find the _sum of all digits of a number. (4)
- 12 (a) Write a program to find te second maximum in an array using function. (5)
- (b) What are the various : pre-processor directives or commands and explain them with simple prowp_11*,,, (5)
- 13 (a) Write a program to copy the content of one file into another. (5)
- (b) Explain,the defining and initializing the structure variable and structure pointers. (5)
- 14 (a) Writ6,a program to overload << operator. (5)
- (b) ,Define'a 'Class called 'Figure', member function area () to find area and constructors (5)
- (1)'4with different number of arguments
- (ii) with default argument
- (iii) with object of Figure as argument
- 15 (a) What is exception? Explain exception handling with example. (5)
- (b) Explain the dynamic binding with example. (5)
- 16 (a) Explain type conversion with example. (5)
- (b) Write a C-program to multiply two matrices of size N x N. (5)
- 17 Write the short notes on the following:
 - (a) Different access specifiers used in C++ (4)
 - (b) Virtual functions (3)
 - (c) New and delete operators (3)