

328552(28)

**B. E. (Fifth Semester) Examination,
April-May 2018**

(New Scheme)

(Et & T Engg. Branch)

DATA STRUCTURE & PROGRAMMING with C++

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : All questions are compulsory. Part (A) of each unit is compulsory. Attempt any two parts from (b), (c) and (d). Assume suitable data if required.

Unit-I

- 1. (a) What are the syntactic rules governing the definition of class data type. 2

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- (b) Write a program to solve a quadratic equation using an OOP techniques. 7
- (c) In what way a destructure is different from a delete operator? Explain with the help of a programme. 7
- (d) What is the inline substitution? Explain the difference between inline code over the macro. 7

Unit-II

- 2. (a) Can the operator precedence and syntax be changed through overloading. Support with reasons. 2
- (b) Explain binary operator overloading using Friends functions with a suitable program. 7
- (c) What is virtual base class? How it differs from abstract class? Show it with an example. 7
- (d) What is the role of inheritance in OOP? How hybrid inheritance differs from multiple inheritance. 7

Unit-III

- 3. (a) How pointer variable is different from an ordinary variable. 2
- (b) Write a program for copying the contents of one array to another using pointers. 7

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- (c) What is the need of virtual function? How it differs from pure virtual function. 7
- (d) What is array of pointers to base class objects? Show it with a program. 7

Unit-IV

- 4. (a) Define Linear data structure. 2
- (b) What is the logic behind binary search? Write a program for binary search. 7
- (c) Write a program in C++ for selection sort. 7
- (d) What is a stack? Explain different operations performed over stack. 7

Unit-V

- 5. (a) What is a file? What are different types of file. 2
- (b) Write a program in C++ for copying the content of one text file to another. 7
- (c) How random access file differs from sequential access file. Explain with example. 7

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- (d) What is the role of template and exception handling in C++. 7

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