[Total No. of Questions - 9] [Total No. of Printed Pages - 2] (2127)

17093(N)

B. Tech 3rd Semester Examination

Object Oriented Programming Using C++ (CBS)

CS-302

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Candidates are required to attempt five questions in all selecting one question from each of the sections A, B, C & D below and all the subparts of the questions in Section E.

SECTION - A

- 1. Explain various Input and Output statements in C++ using appropriate examples. (10)
- 2. Explain the following concepts:
 - (i) Static Objects.
 - (ii) Empty Classes.
 - (iii) Access Specifiers.
 - (iv) Container Classes.

(10)

SECTION - B

- 3. (a) What is Function Overloading? Explain by giving examples. (5)
 (b) Which operators cannot be overloaded? (5)
 4. Write note on Multiple Inheritance in C++. (10)
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SECTION - C

- 5. Write note on Polymorphism. (10)
- Write note on Dynamic Memory Management in C++. (10)

SECTION - D

- 7. Explain the error handling during file operation in C++. (10)
- 8. (a) What is the significance of catch()? What do you understand by rethrowing of exceptions? (5)
 - (b) Explain function templates. (5)

SECTION - E

- 9. (a) What do you mean by Stream?
 - (b) What do you mean by parameterized constructors?
 - (c) What do you mean by Class initialization in Inheritance?
 - (d) What do you mean by Virtual Base Class?
 - (e) Explain Copy Constructor. (5×4=20)

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