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B.Tech. 4th Semester (CSE) F. Scheme Examination,

May-2014

OBJECT ORIENTED PROGRAMMING USING C++

Paper-IT-202-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question No. 1 is compulsory. Attempt five questions in total selecting one question from each section.

Explain the following :

$8 \times 2\frac{1}{2} = 20$

- (a) Friend function
- (b) Function overloading
- (c) Pre-processor directives
- (d) "const" reference argument in function
- (e) Destructors
- (f) Copy constructor
- (g) Dynamic initialization of variables ?
- (h) Member function.

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3. (a) Explicate differences between C++ structure and C++ classes. 10
- (b) Describe class inheritance and polymorphism with the help of examples. 10

Section-B

4. What do you mean by Exception handling ? How exceptions are handled in C++ ? Explain with suitable example. 20
5. (a) What is a file ? What are various file stream classes ? 10
- (b) Write a program to read and display contents of a file with eof() function. 10

Section-C

6. What do you mean by operator overloading ? Overload + operator to concatenate two strings. 20

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Section-D

8. Write notes on the following with suitable illustration in C++ : 20
- (a) Constructor
 - (b) Proxy classes
9. Write notes on the following : 20
- (a) Dynamic memory allocation
 - (b) 'this' pointer.