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B. Tech 3rd Semester Examination

Object Oriented Methods and Programming (O.S.)

IT(ID)-3002

Time : 3 Hours   **Max. Marks : 100**

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

Note :   Attempt one question each from Sections A, B, C, D. Section E is compulsory.

SECTION - A

1. Differentiate between structured and object oriented programming. What is an abstract data type?

OR

What is polymorphism? Also explain inheritance with example.

(20)

SECTION - B

2. What is operator overloading? Explain with Examples.

OR

Explain with examples private, protected and public members of a class.   **(20)**

SECTION - C

3. What are various visibility modes? Explain with examples.

OR

How can you design libraries and streams templates in C++.

(20)

SECTION - D

4. (a)   What are the various steps in object design.

OR

(b)   Write a short note on object oriented analysis and design.

(20)

SECTION - E

5. (i)   What are the features in OOD?

(ii)   Differentiate macros from functions?

(iii)   What is scope resolution operator?

(iv)   What is metadata and what is its use?

(v)   What is operator overloading?

(vi)   What is function overloading?

(vii) How can we construct a dynamic model?

(viii) What is late binding?

(ix)   What is nesting of functions?

(x)   What is polymorphism?   **(2x10=20)**