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B.Tech.

(CSE/ECE/ETE/IT/Electronics & Computer Engg./ 3D Animation & Graphics) (Sem. - 3rd)

OBJECT ORIENTED PROGRAMMING USING C++

SUBJECT CODE : BTCS - 305 (2011 & 2012 Batch)

Paper ID : [A1129]

Time : 03 Hours **Maximum Marks : 60**

Instruction to Candidates:

1) Section - A is COMPULSORY consisting of TEN questions carrying two marks each.
2) Section - B contains FIVE questions carrying FIVE marks each and students has to attempt any four questions.
3) Section - C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

Section - A

Q1) Attempt all parts of this question.

a) What is the shortest possible C++ program?

b) What is numeric overflow?

c) What is the advantage of compiling a function separately?

d) What are arrays?

e) What is wrong with the following code?

int & r = 22;

f) What are constant objects?

g) What name must a destructor have?

h) How many destructors can a class have?

i) How is the operator keyword used?

j) What are pure virtual functions?

Section - B

Q2) How does polymorphism promote extensibility?

Q3) What is the difference between the effects of the following two declarations:
Ratio y = x;
Ratio y; y = x;
Where Ratio is a class.

Q4) What is a virtual member function? Explain with example.

Q5) Explain the use of implicit this pointer with example.

Q6) How and why is the scope resolution operator : : used in class definitions?

Section - C

Q7) Explain the overload of subscript [ ] operator with a suitable programming example.

Q8) What are virtual destructors? Explain their use with a suitable example.

Q9) Write a program in C ++ to multiply two matrices.