

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

B.Tech. (Sem. - 3rd)

OBJECT ORIENTED PROGRAMMING USING C++

SUBJECT CODE : CS -252

Paper ID : [A0304]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) What is a Function overloading?
- b) What do you mean by operand and operators?
- c) What is an Abstract class?
- d) What are destructors?
- e) What is Function overriding?
- f) What are Input/Output stream in C++?
- g) Specify the steps to develop and execute a program.
- h) What is type casting?
- i) What are user defined data types?
- j) What are generic functions?

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Section - B

(4 × 5 = 20)

- Q2)** List and explain different data types used in C++.
- Q3)** Illustrate the concept of arrays with the help of a program.
- Q4)** What is the benefit of using functions? Illustrate different ways of passing arguments to functions in C++.
- Q5)** How a friend function is different than member function?
- Q6)** Describe different file opening modes in C++.

Section - C

(2 × 10 = 20)

- Q7)** Compare Structured and Object Oriented Programming with the help of suitable examples.
- Q8)** a) Discuss the concept of generic classes.
b) Write a program to create the copy of a file in C++.
- Q9)** Discuss the concept of memory management in C++. Explain the concept of dynamic memory management with the help of suitable examples.

