

Roll No.

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B. Tech. (Sem. – 3rd)**OBJECT ORIENTED PROGRAMMING USING C ++****SUBJECT CODE : CS – 252 (2007 On Wards Batch)****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 do you mean by operand and operators?
- b) What is function overloading?
- c) What is type conversion?
- d) What is friend function?
- e) Explain run time polymorphism?
- f) What do you mean by derived class?
- g) Explain type casting?
- h) What are destructors?
- i) What is data abstraction?
- j) Define polymorphism?

Section – B**(4 × 5 = 20)**

- Q2)** Write a program in C++ to find whether a number is prime or not?
- Q3)** What is function over loading. Explain with the help of a program.
- Q4)** Describe different file opening modes in C++.
- Q5)** What are arrays ? Explain the concept of arrays with the help of a program.
- Q6)** Differentiate between friend function and member function with the help of an example.

Section – C**(2 × 10 = 20)****Q7)** Write short notes on the following:

- a) Dynamic memory management.
 - b) Information hiding
 - c) Inline functions
 - d) Generic functions.
- Q8)** What is inheritance? What are its types? Explain the concept of inheritance with the help of a program in C++.
 - Q9)** What is the concept of late binding? Discuss the role of the pointers to achieve late bindings? Explain the concept with the help of an example.

