Roll No. ....

Total No. of Questions : 09]

[Total No. of Pages : 02

B.Tech. (Sem. - 3rd)
OBJECT ORIENTED PROGRAMMING USING C++
<u>SUBJECT CODE</u> : CS - 252
<u>Paper ID</u> : [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

$(10 \times 2 = 20)$

a) What is data abstraction?

b) What is constructor?

c) What is enumerated data type?

d) What is difference in multiple and multilevel inheritance?

e) What is friend function?

f) What is input/output stream in C++?

g) What is structure of C++ program?

h) What is class and instance?

i) What is difference between structure and union?

j) What is virtual keyword used for ?

Section - B

$(4 \times 5 = 20)$

2) What is pure virtual function? Why and when it is used? Give example.

3) What is friend function? How it is different from member function?

Q4) Write a program in C++ to find reverse of number?

Q5) What is polymorphism? Give difference between function overloading and overriding with example?

Q6) What is Generic function? Explain overloading of generic function with example.

Section - C

(2 × 10 = 20)

Q7) What is object oriented programming? Explain features of OOPs?

Q8) (a) Describe different file opening modes in C++?

(b) Write a program to copy contents of one file into another file in C++?

Q9) What is inheritance? What are different types of inheritance? Explain multiple inheritances with example?

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