

Please check that this question paper contains 9 questions and 2 printed pages within first ten

[Total No. of Questions: 09]

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Uni. Roll No.

Program: B.Tech. (Batch 2018 onward)

MORNING

Semester: 3

11 MAY 2023

Name of Subject: Object Oriented Programming

Subject Code: PCCS-101

Paper ID: 16010

Scientific calculator is Not Allowed

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) Define a pure virtual function.
- b) List the operators that cannot be overloaded.
- c) Explain the term 'array of object'.
- d) Compare function overloading and function overriding.
- e) Distinguish between early and late binding.
- f) Build a C++ program illustrating the concept of 'for loop'.

Part – B

[Marks: 04 each]

- Q2. Compare object-oriented programming and procedure-oriented programming.
- Q3. Explain the exception handling mechanism in detail with a program.
- Q4. Compare while and do-while loops with suitable program.
- Q5. Design a C++ program for binary operator overloading.
- Q6. Distinguish between call by value and call by reference with example.
- Q7. Discuss the term 'memory leak'.

Part – C

[Marks: 12 each]

Q8. Explain inheritance with its different types in detail.

OR

Develop a C++ program to copy the contents of one file to another file.

Q9. Discuss the concept of friend function with example. Also elaborate the advantages and disadvantages of this function.

OR

Design programs for different types of constructors illustrating their use.
