

EVENING
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[Total No. of Questions: 09]
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Program: B.Tech.
Semester: 3RD
Name of Subject: Object Oriented Programming
Subject Code: PCCS-101
Paper ID: 16010

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 Encapsulation.
- b) List the operators that cannot be overloaded.
- c) Compare static and dynamic binding.
- d) Explain the term Input stream.
- e) Distinguish between null and void pointers.
- f) Design a C++ program to illustrate the concept of function overriding.

Part – B

[Marks: 04 each]

- Q2. Compare object oriented programming and procedure oriented programming. Make use of appropriate syntax wherever necessary.
- Q3. Explain the break and continue statements. Also write programs for both highlighting the difference between them.
- Q4. Illustrate the concept of static data members and static member functions in C++ with the help of suitable program.
- Q5. Design a C++ program to add two complex numbers using binary operator overloading.
- Q6. Justify the advantage of virtual base class using a program.
- Q7. Discuss the term 'Memory Leak' in detail.

Part – C

[Marks: 12 each]

- Q8. Illustrate the concept of constructors and destructors in C++ with the help of suitable programs.

OR

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

- Q9. Discuss the exception handling mechanism. Write a program for rethrowing an exception.

OR

Explain file pointers in detail. Also write a program justifying their use.

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