

MORNING

[Total No. of Questions: 09]

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Uni. Roll No. ....

Program: **B.Tech.(CSE)**

Semester: 3<sup>rd</sup>

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) What are inline functions?
- b) What is function overriding?
- c) Write a note on exception handling mechanism.
- d) Write a note on error handling during file operations.
- e) Compare procedure oriented paradigm with object oriented paradigm.
- f) Differentiate between constants and variables.

**Part – B**

**[Marks: 04 each]**

- Q2.** Elaborate the different features of object oriented programming.
- Q3.** Explain the concept of friend functions with the help of program.
- Q4.** Write a program to find the factorial of the number entered by the user.
- Q5.** Discuss dynamic memory management using new and delete operators.
- Q6.** Differentiate between call by value and call by reference with the help of a program.
- Q7.** Differentiate between a constructor and destructor with the help of a program.



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Part – C

[Marks: 12 each]

Q8. Write a note on the following:

- i) Class
- ii) Access specifiers
- iii) Static members
- iv) Abstract class

OR

What is inheritance? Explain different types of inheritance with the help of suitable programs.

Q9. Explain operator overloading. Write a program to overload binary operator +.

OR

Explain function overloading and constructor overloading with the help of a suitable program.

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