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**NEPSD—201—2025**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (First Year) (Second Semester) EXAMINATION**

**APRIL/MAY, 2025**

**(As per NEP)**

**COMPUTER SCIENCE**

**Paper—SCSCCT—1151**

**(OOps Using C++—II)**

**(Friday, 11-4-2025)**

**Time : 10.00 a.m. to 12.00 noon**

**Time—2 Hours**

**Maximum Marks—40**

**N.B. :— (i) Question No. 1 is compulsory.**

**(ii) From question No. 2 to 5 solve any three questions.**

**(iii) Draw neat and labelled diagram if necessary.**

1. Attempt the following : 10
- (a) Explain Applications of OOP in detail.
  - (b) What are the different operators used in C++ ?
  - (c) Explain the concept of functions.
  - (d) What are the different I/O statements used in C++ ?
  - (e) What are the different stream classes ?

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2. Attempt the following (any two) : 10
- (a) Explain benefits of OOPs in detail.
  - (b) Explain the concept of array with example.
  - (c) Write a program in C++ to describe concept of nested for loop.
3. Attempt the following (any two) : 10
- (a) Explain concept of call by value in detail.
  - (b) What is overloading ? Explain function overloading in detail.
  - (c) Write a program in C++ to describe concept of friend function.
4. Attempt the following (any two) : 10
- (a) Explain the concept of pure virtual function in detail.
  - (b) Explain the concept of inheritance in detail.
  - (c) Write a program in C++ to describe concept of single inheritance.
5. Attempt the following (any two) : 10
- (a) Explain the concept of stream classes in detail.
  - (b) Explain the concept of formatted and unformatted I/O.
  - (c) Explain concept of manipulators in detail.

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