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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—SCSCCCT—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) :

- (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) :

- (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) :

- (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) :

- (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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