VA—325—2024

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(New Pattern)

COMPUTER SCIENCE

Paper VII

(Programming in C++)

(Tuesday, 24-12-2024)　　　　　　　　　**Time : 2.00 p.m. to 4.00 p.m.**

Time—Two Hours　　　　　　　　　　　　　　　*Maximum Marks*—40

N.B. :— (*i*)　Attempt *all* questions.

　　　　(*ii*)　Answer suitable data, if necessary.

　　　　(*iii*)　Draw suitable diagrams, wherever necessary.

1.　Explain the basic concepts of object-oriented programming.　　　15

<div align="center">Or</div>

(*a*)　Explain basic data types of C++.　　　8

(*b*)　Explain if statement with example.　　　7

2.　What is function ? Explain function prototyping in detail.　　　15

<div align="right">P.T.O.</div>

Or

(a) What is class ? Explain with example. 8

(b) Write a program in C++ to check whether a given number is positive or negative. 7

3. Write short notes on the following (any *three*) : 10

(a) Applications of OOP

(b) While loop statement

(c) Call by value

(d) Tokens of C++.