

BINDURA UNIVERSITY OF SCIENCE EDUCATION
FACULTY OF SCIENCE EDUCATION
EDUCATIONAL TECHNOLOGY DEPARTMENT
BACHELOR OF SCIENCE EDUCATION IN COMPUTER SCIENCE

CS112/EDT115 OBJECT-ORIENTED PROGRAMMING 1 C

DURATION 3 HOURS TOTAL MARKS IS 100

INSTRUCTIONS TO CANDIDATES

JAN 2025

Answer all QUESTIONS

QUESTION 1

- a) Explain the following Object Oriented Programming (OOP) concepts giving their benefits in OOP:
- i. Abstraction [5]
 - ii. Encapsulation [5]
 - iii. Inheritance [5]
 - iv. Polymorphism [5]
- b) Discuss the differences between FAT-based file systems and NTFS. [10]

QUESTION 2

- a) Explain any four different data types available in C++? Provide examples for each data type. [8]
- b) What is the Scope of a variable in C++? [2]
- c) With the aid of examples, Differentiate Local and Global Variable. [10]