

4. (a) Explain the use of *gets()* and *puts()* using suitable example.
(b) What is the purpose of the *printf()* function ? How is it used within a C program ? Compare it with the *putchar* function.
5. (a) Discuss the use of different forms of If-else statement using suitable example.
(b) What is the purpose of Continue statement ? Explain its use. Compare it with break statement.
6. What is Function ? What are differences between passing an array to a function and passing a single-valued data item to a function ? Explain using example.
7. (a) Explain the use of pointers in Call by Less Reference parameter passing for functions using example.
(b) Write a program using pointers to swap the values of two integer numbers.
8. (a) What is Structure ? How it is different from an array? How can a structure member be accessed ? Explain using suitable example.
(b) Explain the concept of Union. In what way does the initialization of a union variable differ from the initialization of a structure variable ?

Exam. Code : 103202
Subject Code: 1007

B.A./B.Sc. 2nd Semester
COMPUTER SCIENCE
(Programming Using C)

Time Allowed—2 Hours] [Maximum Marks—75

Note :— There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. (a) What do you understand by Number System ? Convert $(725.55)_{10}$ into Binary, Octal and Hexadecimal Number Systems.
(b) Explain the concept of Pseudo Code by taking suitable example.
2. (a) Explain various data types supported by C Programming Language giving suitable examples.
(b) How Constant is different from Variable ? Explain the use of String Constants using suitable example.
3. Explain the use of the following operators using suitable examples:
 - (a) Arithmetic Operators
 - (b) Unary Operators.