FACULTY OF ENGINEERING

BE I-Year (Backlog) Examination, November / December 2018

Subject: Programming in C & C++

Time: 3 Hours

Max. Marks: 75

(2)

(3)

(3)

(2)

(3)

(3)

(2)

(2)

(3)

(2)

Note: Answer All Questions From Part-A & Any Five Questions From Part-B.

PART-A (25 Marks)

- 1. Define Compiler, Loader.
- 2. Write an algorithm to find sum of 'n' natural numbers.
- Differentiate i) Global variable and Local variable ii) actual arguments and formal parameters.
- 4. List out 'C' Preprocessor statements.
- 5. What is a self referential structure? Give an example.
- 6. What are enumerated data types? Give an example.
- 7. What do you mean by static data members and static member functions?
- 8. What is unary scope resolution operator?
- 9. Define polymorphism. Give different types of polymorphism.
- 10. What are I/O streams?

PART-B (50 Marks)

 11. (a) Give differences between while and do-while loops. Write a program to find the reverse of a given number. (b) Draw a flowchart to find the roots of a guadratic equation 	(6) (4)
 (a) Write a program in 'C' for Binary Search. (b) Write a program in 'C' to find the maximum and minimum from the given array 	(5)
using pointers.13. (a) Write a 'C' program to add two complex numbers using structures.(b) Write a program to read the contents of a text file and display them.	(5) (5) (5)
14. (a) What is dynamic memory allocation? What operators are used in c++ to allocate memory dynamically. Write a program using dynamic memory allocation in c++.	(6)
 (b) What are default arguments? 15 (a) Define inheritance. Explain types of inheritance with examples. (b) Define function templates with syntax. Write a program to find largest of 'n' 	(4) (5)
numbers using function templates.	(5)
16. (a) Write a program to add two numbers using command line arguments.(b) Explain with an example how exception handling is done in c++.	(5) (5)
17. (a) Differentiate different parameter passing techniques in c++ with suitable examples.(b) Write a program for overloading increment and decrement operators.	(5) (5)
