

Faculty of Sciences**B.Sc (Computer Science) I-Year, CBCS-I Semester Examinations 2018-19****PAPER: OBJECT ORIENTED PROGRAMMING WITH C++**

Time: 3 Hours

Max Marks: 80

Section-A

I. Answer any FIVE of the following questions (5x4=20 Marks)

1. Write merits and demerits of object oriented Programming Language.
2. Explain the usage of Break and Continue Statements.
3. Explain the usage of Recursive Functions.
4. What is Pointer? Write about Pointer Arithmetic.
5. Explain the usage of Union.
6. Write and explain the usage of Friend class.
7. Write about operator overloading.
8. Write about Runtime Polymorphism.

Section-B

II. Answer the following questions (4x15=60 Marks)

9. (a) What is an Algorithm? Write its characteristics. Explain with example.
(b) What is Token? Explain C++ Tokens.
(OR)
(c) Explain Iterative statements with example.
(d) Write a CPP program to print first n prime numbers.
- 10.(a) Explain call-by-value and call-by-reference.
(b) Write about storage classes.
(OR)
(c) What is an Array? Explain different operations performed on Array using Example.
(d) What is dynamic Memory Allocation? How to allocate memory dynamically to Arrays?
- 11.(a) What is structure? Explain. How to use structures.
(b) Explain Typedef and Enumerated data Types with example.
(OR)
(c) What is class? Explain, in how many ways we can declare a member of a class?
(d) Explain the usage and advantages of constructor and destructor.
- 12.(a) Demonstrate Single and Multilevel Inheritance.
(b) What is overloading? Explain function overloading.
(OR)
(c) What is Template? Explain class Template.
(d) Write about Abstract Base classes.
