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18/101-C

B.C.A. (Second Semester) Examination, 2018

Paper : BCA-201

Object Modeling & C++ Programming

Time : Three Hours] [Maximum Marks : 70

Note : Attempt questions from **all** sections as per instructions.

Section - A

Note : Attempt **all** parts of this question. Give answer of each part in about 50 words. $1.5 \times 10 = 15$

1. (i) Explain link and association
- (ii) What is meta data?
- (iii) What do you mean by event and states?
- (iv) Differentiate between private and public function.
- (v) What do you mean by inline function?
- (vi) What is abstract class?

P.T.O.

(2)

- (vii) Define constructor.
- (viii) What are control flow statements?
- (ix) What is static member function?
- (x) What are constraints?

Section - B

Note : Attempt **all** questions. Give the answer of each question in about 200 words. $7 \times 5 = 35$

2. What is state diagram? Explain it with suitable example.

OR

What is operator overloading? Explain it with suitable example.

3. What are the various access modifiers? Explain with example.

OR

What are the various storage classes? Explain it.

4. Explain the data flow diagram with suitable example.

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OR

What is parameterized constructor? Explain with example.

5. Write a C++ program to illustrate the multiple inheritance.

OR

How to dynamically initialize object in C++? Explain with example.

6. What are the various types of inheritance in C++? Explain it.

OR

Write a C++ program to check whether given no. is Prime or Not Prime.

Section - C

Note : Attempt any **two** questions. Give the answer of each question in about 500 words.

$$10 \times 2 = 20$$

7. What do you mean by dynamic modeling? Explain in brief.

8. Write a C++ program to illustrate the concept of constructor.
9. What do you mean by polymorphism? Explain with a suitable example.
10. Write a C++ program to illustrate virtual function.
11. Write a program to illustrate friend function.