

J-FB-22-00244**B. Tech. EXAMINATION, 2022**

Semester III (CBCS)

OBJECT ORIENTED PROGRAMMING USING C++
(CSE, IT)

CS-302

Time : 3 Hours

Maximum Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt Five questions in all, selecting one question from each Sections A, B, C and D. Q. No. 9 is compulsory.

Section A

1. (a) Define access specifier. 5
- (b) Define object with an example. 5

2. (a) What is container class ? 5
- (b) Define hierarchy of console stream classes. 5

Section B

3. (a) What is Constructor ? Why do we need constructor ? 5
- (b) Define operator overloading with a suitable example. 5
4. (a) Define overriding method. 5
- (b) Define overloading of new and delete method. 5

Section C

5. (a) Write a program to print the value of variable X on the screen using pointer. 5
- (b) What is the difference between virtual function and pure virtual function ? 5
6. (a) Define polymorphism with a suitable example. 5
- (b) Explain self-referential class with an example. 5

Section D

- 7 Describe the major tasks of input and output stream classes. 10
8. Which stream must always be used to process external files ? Why ? 10

(Compulsory Question)

9. Attempt all the following : 8×2.5=20
- (a) What is protected specifier ?
 - (b) Define Inheritance.
 - (c) What is early binding ?
 - (d) What is catch () block ?
 - (e) What is control statement ?
 - (f) What is multi-level inheritance
 - (g) Define Dynamic Memory Management.
 - (h) Define Paradigm.