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.