

Total No. of Questions – [ 8 ]

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G.R. No.

Paper code – 0219-126 (BE - F&FS)

DECEMBER 2019 / ENDSEM

Backlog Exam

S. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)

COURSE NAME : OBJECT ORIENTED PROGRAMMING

COURSE CODE: (CSUA21176)

( PATTERN 2017 )

Time: [2 Hours]

[Max. Marks: 50]

**Instructions to candidates:**

- 1) Answer Q.1, Q.2, Q.3, Q.4, Q.5 OR Q.6, Q.7 OR Q.8
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Q.1 a Consider the following declaration:

```
class TRAIN
```

```
{
```

```
int trainno;
```

```
char dest[20];
```

```
float distance;
```

```
public:
```

```
void get( ); //To read an object from the keyboard
```

```
void put( ); //To write an object into a file
```

```
void show( ); //To display the file contents on the monitor
```

```
};
```

Complete the member functions definitions

[6]

OR

b List the features of Object-Oriented programming.

[6]

Q2 a Explain the public and private and protected derivation in Single inheritance.

[6]

OR

b Illustrate how the execution of constructor and destructor can be done in base and derived class?

[6]

Q3 a What is virtual function? When do we make virtual function "pure"?

[6]

OR

b. What are the advantages and disadvantages of virtual function?

[6]

Q4 a Write a C++ program to check eligibility criteria of student for First Year Engineering admission if student meets below criteria he is eligible.

[4]

1. Students should have minimum marks of 50% in HSC.

2. He should have appeared at least any one of the exam(MHCET or JEE) use exception handling (use class and object).

OR

- b Write a program in C++ to handle "divide by zero" exception (use class and object). [4]  
Q5 a Write a C++ Program to copy content of one file into another. [6]  
b. How I/O Stream is different than file stream? [4]  
c. Explain following function `seekg()`, `tellg()`, `seekp()`, `tellp()` with syntax. [4]

OR

- Q6 a Explain `fstream`, `ifstream` and `ofstream` with help of example [6]  
b. What is file? Write down the steps for manipulating files in C++. [4]  
c. What is stream class ? discuss any four function of same? [4]  
Q7 a What is an iterator? What are types of Iterators? [6]  
b. Write a Program of overloaded function template. [4]  
c. What is container? List the container classes in C++. ? [4]

OR

- Q8. a Write a C++ Program to implement List using STL for adding an element delete an element , insert between the list, display all elements using Iterator. [6]  
b What are features of multiset Associative container? [4]  
c List minimum four functions of vector STL. Write a program to explain the same. [4]

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