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| 3 ^{td} SEMESTER | B.Tech. (CSE) |
| SUPPLEMENTARY EXAMINATION | Feb-2020 |
| CO203: Object Oriented | Programming |
| Time: 3:00 Hours | Max. Marks: 40 |
| Note: Answer any five question. Question Assume suitable missing data, if an | |
| Q.1 Answer all the following questions: | [10] |
| a) What is an abstract class? | |
| b) Explain inline functions. | |
| c) Define deconstructor and give example | • |
| d) Explain the two types of exceptions. | |
| f) What are the two ways of detecting end | of file? |
| | |

Q.2 a) What is nested class? Explain its features with help of an example.

b) Illustrate how class objects can be written and read from the files. [4]

Q.3 a) Explain with an example to open, close, and write data to the file.

Q.4. a) Illustrate how an object can be created (within a function) and

b) What is a friend function? Are they a threat to the data hiding?

b) Explain different components of standard template library.

return to another function.

| Q.5 a) What do you mean by dynamic initialization of class. Why | 10 ME |
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| need this? | [4] |
| b) How does operator overloading support the concept of polymorp | hism. |
| | [4] |
| Q.6 a) Differentiate between public, private, and protected inher | itance |
| with suitable example. | [4] |
| b) Differentiate between virtual and pure virtual function? | [4] |
| Q.7 a) What do we need templates. How does it benefit program | mers? |
| Explain with example. | [4] |
| b) Write a program that throws atleast two exception from a class. | [4] |
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