



II B.Tech I Sem Supplementary Examination, February-2022

Object Oriented Programming using C++

(CSE & IT)

Time: 3 Hours.**Max. Marks: 70**

Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

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| 1 | a) Explain the advantages of object oriented programming paradigm over procedural paradigm. | 7M | C01 | BL2 |
| | b) What is inline function? Write an example in C++ for inline function. | 7M | C01 | BL3 |
| 2 | Discuss various parameter passing techniques in C++ with appropriate examples. | 14M | C01 | BL2 |
| 3 | a) What is a friend function? Discuss how it is different from a member function. | 7M | C02 | BL2 |
| | b) Explain about the characteristics of the static members in a class. | 7M | C02 | BL1 |
| 4 | Discuss about various types of constructors in C++ with example program. | 14M | C02 | BL2 |
| 5 | a) What is pure virtual function? Explain how they are used in abstract class. | 7M | C03 | BL3 |
| | b) Write about virtual base class in detail. | 7M | C03 | BL2 |
| 6 | Explain different forms of inheritance in C++ with examples. | 14M | C03 | BL2 |
| 7 | a) Write about various classes in I/O stream classes hierarchy. | 7M | C04 | BL1 |
| | b) Discuss about various operators for formatted I/O in C++. | 7M | C04 | BL2 |
| 8 | Explain how exceptions can be handled in C++ with appropriate example. | 14M | C05 | BL3 |