B.Tech. (CSE) (2018 Batch)   (Sem.–3)
OBJECT ORIENTED PROGRAMMING
Subject Code : BTCS-302-18
M.Code : 76437

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

1. Discuss the rules of Defining Constructors.

2. Write the use of function overloading.

3. Define this pointer.

4. What is an Abstract class?

5. Explain briefly what is Exception Handling?

6. What are C++ streams?

7. Define the term Multilevel Inheritance.

8. What is a friend function and friend class?

9. What are the different modes in which C++ file is opened?

10. Explain how memory is allocated to classes & objects?

SECTION-B

11. Explain with examples the different (Variable) storage classes used in C++.

12. What are the advantages of using new operator as compared to the function malloc()? Explain with examples.

13. What is object oriented programming? Explain any five characteristics of object oriented programming languages.

14. Explain public, private and protected access specifiers and show the ambiguity in multiple and multipath inheritance.

15. Explain the various techniques of defining pure virtual function.

SECTION-C

16. Define Operator Overloading. Explain how to overload unary operator and binary operator.

17. Describe the terms private inheritance and protected inheritance with the help of an example program.

18. What is file mode? Describe the various file mode options available.