Total No. of Pages : 02

Total No. of Questions : 18

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

M.Coa

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. Define inheritance. Name various types of inheritance.
- 2. What is a pure virtual function?
- 3. What is Data hiding? How is achieved in C++?
- 4. What do you understand by array of class objects? Discuss with example.
- 5. What is function overloading? Give example.
- 6. Discuss the declaration and usage of static data members.
- 7. What are basic data types supported by C++?
- 8. Compare private, protected and public visibility modes.
- 9. Discuss C++ stream classes.
- 10. What are recursive functions? Give example.

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#### **SECTION-B**

- 11. What is a friend function? Explain its importance with an example.
- 12. What do you mean by Multi level Inheritance? Explain with the help of an example.
- 13. Explain various types of constructor with examples.
- 14. Explain the declaration, accessing and usage of static data members with the help of suitable examples.
- 15. Show and explain how to open, close, read and write a file?

### **SECTION-C**

- 16. Explain various control statements of C++ with suitable examples
- 17. Define Polymorphism. Explain its types. How polymorphism is implemented in C++? Give suitable examples.
- 18. What do you mean by exception handling in C++? Write a program that throws an arithmetic exception as and when a number input is a negative number.
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NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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