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## **IT-304-CBGS**

### **B.Tech., III Semester**

Examination, December 2020

## **Choice Based Grading System (CBGS) Object Oriented Programming and Methodology**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Draw neat sketch if necessary.

iv) In case of any doubt or dispute the English version question should be treated as final.

1. a) What are the major characteristics of object oriented programming language?
  
- b) What is Inline function? Write the advantage of inline functions.

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2. a) Explain control statement with taking a suitable example.  
b) Write a program to overload area function which calculate area of circle and rectangle based on parameter.
  
3. a) What is a class? When do we declare a member of a class static?  
b) What are constructors and destructors? When are they called and what is their utility?
  
4. a) What is run time polymorphism? How it is achieved?  
b) Write a program to overload assignment operator.
  
5. a) Explain various types of inheritance. Give any two advantages of inheritance.  
b) Discuss in brief about containers and command line arguments.

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6. a) Explain pointer and function pointer.  
b) Explain virtual function with taking a suitable example.
7. a) What is file mode? Describe the various file mode operation available.  
b) What are stream class? Explain with example.
8. Write short notes (any two)
  - a) Polymorphism
  - b) Exception handling
  - c) Friend function

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