

Registration No :

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Total Number of Pages : 01

B.Tech
BECS2212

3rd Semester Back Examination 2018-19

C++ AND OBJECT ORIENTED PROGRAMMING

BRANCH : AEIE, BIOMED, BIOTECH, CHEM, CIVIL, ECE, EEE, EIE,
ELECTRICAL, ENV, ETC, FASHION, FAT, IEE, MANUFAC, MANUTECH, MECH, METTA,
MINERAL, MINING, MME, PE, PLASTIC, TEXTILE

Time : 3 Hours

Max Marks : 70

Q. CODE : E916

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

Q1 Answer the following questions : (2 x 10)

- Differentiate: Object oriented programming(c++) and Structures oriented programming(c).
- What are the applications of OOP.
- List the characteristics of member function.
- What are the characteristics of constructor?
- Mention the operators which cannot be overloaded.
- What is meant by public and private member functions?
- What is the use of scope resolution operator?
- Difference between class template and function template.
- Define Manipulators.
- Write the syntax for file open and close?

Q2 a) What are the advantages and applications of using OOPS? (5)

- b) Write a C++ program to construct student mark list for three subjects. Write the program to display name, rollno, marks, avg and total. Use class and objects (5)**

Q3 a) Elaborate the following terms: class and object with an example. (5)

- b) Explain the declaration of a class in c++. How will you define the member function of a class? Explain. (5)**

Q4 a) What is a constructor. Mention different types of constructor. (5)

- b) Compare and contrast static binding and dynamic binding. (5)**

Q5 a) Explain virtual base classes and virtual function, pure virtual function (5)

- b) Explain in detail about Operator Overloading with an example? (5)**

Q6 a) Write a brief note on try-catch-throw exception with a neat sketch? (5)

- b) What is Standard template library? State the categories of containers and explain. (5)**

Q7 What are the types of inheritance? Explain. (10)

Q8 Write short answer on any TWO : (5 x 2)

- Recursion
- Friend functions.
- Abstract classes.
- formatted I/O operations.