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Sixth Semester B.E. Degree Examination, Dec.2015/Jan.2016 Progamming in C++

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

- 1 a. What are comments? Explain different types of comments in C++ with an example.
 - b. Distinguish between static memory allocation and dynamic memory allocation. (06 Marks)
 - c. List the salient features of object oriented programming. (06 Marks)
 - d. Explain the following: #elif, # if def. (04 Marks)
- 2 a. What are variables? Describe with an example. (06 Marks)
 - b. Explain reference types and distinguish between reference types and pointer types.

(08 Marks)

- c. Write a C++ program to read integer numbers from keyboard until user enters zero and sum the even numbers only and display the result. (06 Marks)
- 3 a. Write the O/P of followings:

```
i) # define square(x) x * x
  void main()
  {
  int i = 64/square (4) :
    cout<<i;
  }
  ii) void main()
    {
    int num, a = 15;
    num = ---- a --;
    cout<<num<<a;
    }
  iii) void main()
  }
  int i;
  for (i = 0 ; I < 5; i++)
    {
    int i = 10;
    printf("%d", i);
    i++;
    }}</pre>
```

(06 Marks)

- b. Write a program to find the minimum of three numbers using conditional operator.
- c. Describe: break, continue and goto statements. (05 Marks)
 (09 Marks)
- 4 a. Describe call by value and call by reference with an example. (08 Marks)
 - b. Describe inline function with an example. (06 Marks)
 - c. Write a program to calculate sum of first n integers using recursion. (06 Marks)

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PART – B

| 5 | a. | Describe exception handling in C++ with an example. | (10 Marks) |
|---|----|---|------------|
| | b. | Describe: | |
| | | i) Rethrow | |
| | | ii) Catch all handler. | (10 Marks) |
| | | | |
| 6 | a. | Write a C++ program using class and explain public, private, object, class member | |
| | | | (10 Marks) |
| | b. | Explain friend function and friend class, with example. | (10 Marks) |
| 7 | a. | Discuss the principle of operator overloading with an example. | (10 Marks) |
| , | b. | Write a program to overload both prefix and postfix increment operator. | (10 Marks) |
| | | | |
| 8 | a. | Describe base class access control with an example. | (08 Marks) |
| | b. | With a program illustrate inheritance of multiple base classes. | (12 Marks) |

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