



B.E DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

ELECTRONICS AND INSTRUMENTATION ENGINEERING

CSE202: Object Oriented Programming & C++

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. _____ refers to the act of representing essential features without including the background details or explanations.
 - a) Isolation
 - b) Encapsulation
 - c) Abstraction
 - d) Inheritance
2. The statement `char s = 'A'` will internally assign value to `s` is
 - a) 0
 - b) ASCII value of A
 - c) Error
 - d) Garbage value
3. When the `break` statement is encountered inside a loop, which one of the following occurs?
 - a) Inheritance control goes to the end of the program
 - b) control leaves the function that contains the loop
 - c) Causes an exit from the innermost loop containing it
 - d) Causes an exit from all the nested loop
4. _____ refers to the use of the same function name to create functions that perform different tasks.
 - a) overloading
 - b) operator overloading
 - c) function overloading
 - d) multiple functions
5. Which of the following array initialization statements are valid?
 - a) `Double a[3]=0.0`
 - b) `Double a[2]={ 1.0,2.0,3.0}`
 - c) `Double a[]={ 1.0,2.0}`
 - d) `Double a[1]={ 1.0,2.0}`
6. Which is not known as Abstract Data Type?
 - a) union
 - b) Classes
 - c) object
 - d) Structure

- b) (i) Explain in detail about the structure of C++ with example and list the benefits of OOPS. (7)
- (ii) Make use of class and object concepts to write a simple C++ program to find whether a given number is Armstrong number or not. (7)

22. a) (i) Explain call by reference and call by value. Write a program to swap 2 values by passing arguments as values, address, and reference. (7)
- (ii) Explain inline function with an example? List out the situations where inline function can be used. (7)

(OR)

- b) (i) Define function overloading. Implement the matrix class and overload the display function in four different types. (9)
- (ii) Explain default arguments with an example program. (5)

23. a) Explain the following concepts with appropriate example programs
- a) Object as function argument
- b) Returning objects from function

(OR)

- b) (i) Explain constructor overloading with appropriate example. (7)
- (ii) Explain string class. Write a program to create a string class and the member functions to perform the following string operations (7)
- String concatenation
- String copy
- String length

24. a) Make use of operator overloading concepts to write a program to overload the following arithmetic operator.

minus -

less than <

Combined assignment operator +=

Assignment operator =

(OR)

b) Define inheritance? Explain various type of inheritance with example.

25. a) (i) Explain the friend function and friend class with an example program. (7)
(ii) Illustrate the use of Virtual function, Virtual class and Abstract class with an example. (7)

(OR)

- b) (i) Make use of template concepts to write a program to implement stack operations. (9)
(ii) Explain command line argument. (5)
