Reg. No. | A | U | H | I | P | P | O | . | C | O | M | * |

Question Paper Code : 50390

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Fourth Semester

Electrical and Electronics Engineering

CS6456 – OBJECT ORIENTED PROGRAMMING

(Common to Electronics and Instrumentation Engineering/Instrumentation and Control Engineering)

(Regulations 2013)

Time : Three Hours | Maximum : 100 Marks

Answer ALL questions

PART – A (10×2=20 Marks)

1. What are enumerated data types ? Give an example.
2. Define recursion.
3. Write the use of destructor.
4. What do you mean by container ?
5. List the benefits of using templates in C++.
6. Define exception.
7. Highlight the features of Java.
8. Give the syntax of while statement in Java.
9. Write some Java string class methods.
10. State the use of try block in Java exception handling.

PART – B (5×13=65 Marks)

11. a) i) Show the rules of precedence and associativity for the operators in C ++.

ii) Explain the switch statement in C++ with examples.

(OR)

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b) i) Write a C++ program to sort the given numbers using function. (8)

ii) Write a C++ program to swap two numbers using pointer. (5)

12. a) What are the different types of constructors in C++ ? Illustrate with an example. (13)

(OR)

b) i) Explain the concept of polymorphism with an example. (8)

ii) Write the need for iterators in C++. Give an example. (5)

13. a) Explain function template and class template with suitable examples. (13)

(OR)

b) Explain inheritance in C++ with suitable examples. (13)

14. a) i) Write a Java program to generate Fibonacci series. (8)

ii) Explain how to declare arrays in Java. Give examples. (5)

(OR)

b) i) With an example, discuss how to declare methods with multiple parameters in Java. (8)

ii) Brief about inheritance in Java. (5)

15. a) Explain the use of package in Java with an illustrative example. (13)

(OR)

b) Develop Java program to implement an interface with an example. (13)

PART – C (1×15=15 Marks)

16. a) i) Develop a C++ program to perform matrix multiplication for the given two matrices A and B. The resultant matrix may be stored in matrix C. (15)

ii) Throw an exception if the matrices cannot be multiplied and handle it using an user defined exception.

(OR)

b) Develop a Java program to illustrate the concept of multi threaded programming. (15)

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