

AU – 2513 Add

Third Semester B. E. (Electronics and Telecommunication) Examination
(New)

OBJECT ORIENTED PROGRAMMING

Paper – 3 ET 02

(USC – 11825)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Due credit will be given to neatness and adequate dimensions.
(2) Assume suitable data wherever necessary.
(3) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) State the benefits and applications of OOP. 6
(b) Write a simple C++ program to find whether the entered nu is even or odd. 7

OR

2. (a) What is scope resolution operator in C++ ? Write a suitable program to explain. 8
(b) Explain user defined data types in C++. 5
3. (a) Explain object – class paradigm in C++. 5
(b) Write a simple C++ program to calculate Area of circle, rectangle, square using function Area () use function overloading. 8

OR

4. (a) Write a C++ program using constructors and destructors and hence explain both. 7
(b) Write a C++ program for function and constructor overloading. 6
5. Explain inheritance and it's subtypes in C++, write a suitable example program for each type. 15

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OR

6. (a) Write a C++ program to overload binary operator using friend function in C++. 8
(b) List the rules for operator overloading. 7
7. (a) Explain explicit and implicit type – casting in Java, write suitable examples. 7
(b) Explain control flow statements in Java, write suitable program for each type. 6

OR

8. (a) What is JVM (Java Virtual Machine) ? 6
(b) What are identifiers in Java ? 7
9. (a) What is 'this' keyword in Java ? Write a suitable program using 'this' keyword. 8
(b) Write a simple Java program to calculate and print area of a circle. 5

OR

10. (a) Explain automatic memory clearing in Java. 6
(b) Write a Java program to convert the given weight in kilograms to a weight in pounds (Given 1 kg = 2P). 7
11. Explain all types of inheritance in Java, write a suitable program for each type. 13

OR

12. (a) Write a Java program using multilevel inheritance. 5
(b) Explain re – usability with reference to inheritance in Java. 8

