

AU – 2688

Fifth Semester B. E. (Computer Engineering) Examination

OBJECT ORIENTED PROGRAMMING

Paper – 5 FEKE 05

(USC – 10262)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
(2) Assume suitable data wherever necessary.
(3) All questions carry marks as indicated.
(4) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. (a) Give the limitations of procedure oriented programming. Also explain need of object oriented programming. 7
- (b) How Encapsulation and data hiding is implemented in OOP? Explain with example. 7

OR

2. (a) What is constructor ? How are they invoked ? 6
 - (b) Explain following terms :—
 - (i) Classes of objects
 - (ii) Inheritance
 - (iii) Encapsulation
 - (iv) Polymorphism. 8
3. (a) What are the different types of conversions in C++ and how are they achieved ? 7

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- (b) What is the limitations of overloading unary increment / decrement operator?
How are they overcome ? 6

OR

4. (a) Explain function pointers with example. 7
(b) Explain the use of new and delete operator with example. 6
5. (a) Explain how base class member function can be invoked in a derived class if the derived class also has a member function with the same name. 7
(b) How are the different visibility modes used in inheritance ? Explain with an example. 6

OR

6. (a) Explain containership with example. 7
(b) Write a C++ program for multiple inheritance. 6

SECTION B

7. (a) Explain pure virtual function with example. 7
(b) What is abstract class ? Explain with example. 7

OR

8. (a) What is this pointer ? Explain with example. 7
(b) Explain friend function with example 7
9. (a) Write a program that takes command line argument and prints the arguments entered in command line. 7
(b) Explain overloading of insertion and extraction operators with example. 6

OR

10. (a) What are file pointers ? Explain the function for manipulation of file pointers with example. 7

- (b) What do you mean by stream ? Explain stream class hierarchy. 6
11. (a) What is class template and function template ? Explain with example. 7
- (b) Write a C++ program to handle multiple exceptions with the program. 6

OR

12. (a) Explain STL. Explain various component of STL. 7
- (b) What is iterator? Explain characteristics of iterators. 6



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