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Question Paper Code : 65104

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Third Semester

Software Engineering

ESE 032 — OBJECT ORIENTED PROGRAMMING AND C++

(Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the use of scope resolution operator?
2. Define polymorphism.
3. What do you mean by in-line function?
4. What is an abstract class?
5. Write one example for parameterized constructor.
6. Define type cast with an example.
7. Write one example for multiple inheritances.
8. Which key word is used to identify the current object?
9. Write about cout<<?
10. Which are the commands used to open a file and close a file?

PART B — (5 × 16 = 80 marks)

11. (a) Briefly discuss the object oriented programming concepts with suitable example. (16)

Or

- (b) (i) Explain various control structure in C++ with an example. (8)
(ii) Write a C++ program to convert the decimal number into binary number using inline function. (8)
12. (a) (i) Compare and contrast between friend function and virtual friend class with an examples. (6)
(ii) Write a C++ program to demonstrate the friend class, friend function and virtual function. (10)

Or

- (b) (i) Write detail note on class template and abstract class with an example. (8)
(ii) Write a C++ program to demonstrate the array of object with an example. (8)
13. (a) (i) Write a C++ program to over load a arithmetic operators and explain it in detail with an example. (10)
(ii) Differentiate between method overloading and method overriding. (6)

Or

- (b) (i) Write detail note on automatic conversion with an example. (6)
(ii) Write C++ program to demonstrate the method overloading and explain it with n example. (10)
14. (a) Explain all types of inheritance in detail with an example. (16)

Or

- (b) (i) Write a C++ program to demonstrate the run time polymorphism using pointers. (8)
(ii) Write a C++ program to demonstrate the multiple inheritances with virtual function and explain it with an example. (8)

15. (a) (i) Explain various types of console input and output statements with an example. (8)
- (ii) Explain various operations to manage the file in C++. (8)

Or

- (b) Write a C++ file program to perform the following operation in employee file. (16)
- (i) Insert a new employee record in to a file.
- (ii) Delete a particular record.
- (iii) Update 80% of BP into salary of all employees whose getting basic salary is >8000.
- (iv) Display a detail of particular employee.
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