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Question Paper Code : 51213

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Fifth Semester

Electrical and Electronics Engineering

080280041 — OBJECT ORIENTED PROGRAMMING

(Common to 080230004 A — Object Oriented Programming for B.E. (Part-Time)
Third Semester Electrical and Electronic Engineering)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List a few areas of application of OOP technology.
2. Why is an array called derived data type?
3. When do we use overloading of a function?
4. How is a member function of a class defined?
5. When do we use the protected visibility specifier to a class member?
6. Why do we need virtual function?
7. List four major differences between C and Java.
8. What is token in Java?
9. What is an interface?
10. How does string class differ from the string buffer class?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the fundamentals of C++. (8)
(ii) Describe the various data types of C++. (8)
- Or
- (b) (i) Discuss the development of object oriented programs. (8)
(ii) Discuss the array of pointers in C++. (8)

12. (a) (i) What are the merits and demerits of using friend function? Explain. (8)
- (ii) Describe parameterized constructor. (8)

Or

- (b) Define a class to represent a bank account. Include the following members :

Data members :

- (i) Name of depositor
(ii) Account number
(iii) Balancing the account .

Member functions:

- (i) To assign initial deposit
(ii) To deposit an amount
(iii) To display name and balance. (16)

13. (a) (i) Define a class string. Use over loaded == operator to compare two strings. (8)
- (ii) Discuss the implications of making a function a pure virtual function. (8)

Or

- (b) Describe the different forms of inheritance. Give an example for each. (16)

14. (a) (i) Explain final variables and methods in Java with suitable examples. (8)
- (ii) Discuss overloading in Java. (8)

Or

- (b) Discuss the three types of visibility modifiers used in Java. (16)

15. (a) Describe the various forms of implementing interfaces. Give examples of Java code for each case. (16)

Or

- (b) Discuss various levels of access protection available for packages and their implications. (16)