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[5459]-141

S.E. (Electronics/C & TC) (Second Semester) EXAMINATION, 2018

OBJECT ORIENTED PROGRAMMING

(2015 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Answer Q. No. 1 or 2, Q. No. 3 or 4, Q. No. 5 or 6,
Q. No. 7 or 8.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Use of Calculator is allowed.

(v) Assume suitable data, if necessary.

1. (a) Differentiate between Procedure oriented programming and Object oriented programming. [6]
- (b) What is the use of constructor ? State *four* types of constructor. Write a program in C++ for any *one* type. [6]

Or

2. (a) Define inheritance. Explain different types of inheritance. [3]
- (b) How is memory allocated to a class and objects in C++ ? [3]
- (c) Write a program in C++ to use Scope resolution operator. [6]

P.T.O.

3. (a) Explain in brief the different data types in Java. [6]
(b) Write short notes on : [7]
(i) Control Statements in JAVA.
(ii) Command line Arguments.

Or

4. (a) What is Recursion ? Write a program to print array elements using Recursion. [6]
(b) Explain appropriately the following : [7]
(i) The **this** keyword.
(ii) Finalize().
5. (a) Describe the various *four* forms of implementing interfaces in JAVA. [6]
(b) Write a program in Java to create a player class. Inherit the classes Cricket_player and Football_player from player class. [6]

Or

6. (a) Differentiate between Interface and a Class. [6]
(b) What is Package ? How do we add a class or an interface to a package in JAVA ? [6]

7. (a) Explain Byte stream and Character stream. [6]
- (b) What is a thread in JAVA ? Explain single threaded and multithreaded program. What is the difference between multiprocessing and multithreading ? [7]

Or

8. (a) Explain the terms : [6]
- (i) Reading Console inputs.
- (ii) Writing Console output.
- (b) What is an applet in JAVA ? Explain a local applet and a remote applet. [7]