

CLASS: MCA

15A / 236

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 min.

MAXIMUM MARKS: 70

| SEM | SET | PAPER CODE | TITLE OF THE PAPER |
|-----|------|------------|----------------------------------|
| II | 2014 | 14PCA2110 | OBJECT ORIENTED CONCEPTS AND C++ |

SECTION – B

Answer all the questions:

5 x 5 = 25

31. a. List any seven applications of Object Oriented Programming.

OR

b. Explain the switch statement with an example.

32. a. What is meant by overloading? Explain it with examples.

OR

b. What is the significance of a friend function? Explain.

33. a. What is a copy constructor? Explain.

OR

b. How default values are assigned to parameters? Explain it with examples.

34. a. Explain the different access modifiers with its characteristics.

OR

b. What is do-nothing function? Explain its significance.

35. a. Explain the method of accessing command line arguments.

OR

b. What is a template? Explain.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Discuss the Object Oriented concepts with examples.
37. Write a C++ program to create a class for representing a Vehicle. The class should include at least three functions that operate on the array data. Also include the constructor and write the main function, create objects and invoke the methods.
38. Discuss the overloading of binary operator with examples.
39. Discuss the implementation of hierarchical inheritance in C++ with example.
40. Write a C++ Program to read the contents of one file and write them into another file after converting the characters in it into upper case letter. It should include proper validations. Get the two file names as inputs.
