

MCA (Revised)
Term-End Practical Examination
December, 2007

**MCSL-054 : LABORATORY COURSE IN (ADVANCED
INTERNET TECHNOLOGIES & COMPUTER GRAPHICS AND
MULTIMEDIA)**

Time allowed : 2 hours

Maximum Marks : 50

Note : There are two parts (Advanced Internet Technologies & Computer Graphics and Multimedia) in this paper. Each part is for 1 hour duration. Attempt only that part(s) in which you are **not successful** as yet.

PART 1 : Advanced Internet Technologies

Note : Answer the following question. It carries 20 marks and the viva-voce is for 5 marks.

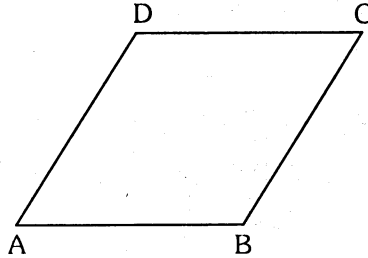
1. Write a program using Servlet and JDBC for developing an on-line application for the Nokia mobile shop. (Hint : Use concept of session tracking). You have to create a database for :
 - Model_No
 - Specification
 - Type (GSM/CDMA)
 - Cost
 - Offer (if any)
 - Discount (if any)

Make necessary assumptions, if any, and mention them.

PART 2 : Computer Graphics and Multimedia

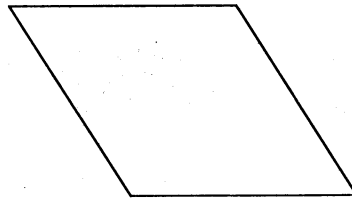
Note : Answer the following question. It carries 20 marks and the viva-voce is for 5 marks.

2. Write a program in C/C++ using OpenGL to draw a Rhombus ABCD as shown in the following figure. 20



Use OpenGL primitives to perform the following sequence of operations on ABCD.

- (i) Scale-up the given ABCD rhombus to its one-and-a-half.
- (ii) Rotate ABCD to an angle so that given ABCD will appear like :



(Select the point of rotation)

- (iii) Convert the ABCD lines into dashed-lines as given below :

