

**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

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**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.

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**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 a Jewellery shop. (Hint : Use concept of session tracking).

You have to create a database for :

20

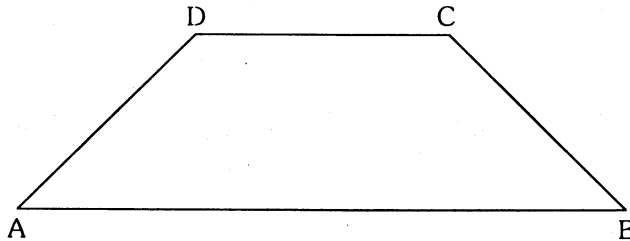
- Jewellery\_Code
- Jewellery\_Name
- Manufacturer\_Name
- Specification
- Cost
- Offer (if any)
- Discount (if any)

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 trapezium ABCD as shown in the following figure. 20



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

- (i) Scale down the given ABCD trapezium to its half.
- (ii) Rotate counterclockwise by  $120^\circ$  about A.
- (iii) Convert the ABCD lines into dashed-lines as given below :

