

**MCA (Revised)**  
**Term-End Practical Examination**  
**December, 2011**

02024

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

*Time allowed : 2 hours*

*Maximum Marks : 50*

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**Note :** *There are two parts (Advanced Internet Technologies and Computer Graphics and Multimedia) in this paper. Each part is of 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 in JSP that enables any student to change the medium of instruction of the programme with which she/he is enrolled. Make necessary assumptions. 20

PART - 2

COMPUTER GRAPHICS AND MULTIMEDIA

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

1. Write a program in C/C++ using Open GL that draws the following figure. 20

