

**MCA (Revised)**  
**Term-End Practical Examination**  
**December, 2010**

02593

**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 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 using JSP that enables any student to change the medium of instruction of his/her programme of study. 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.*

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

