

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

00798

**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 JSP that displays a pull down menu of names of any 5 universities. 20  
When a university is selected, it should list all programmes offered by that university.  
Make necessary assumptions.

**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 red circle on a blue background. 20
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