

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

00313

**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 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**

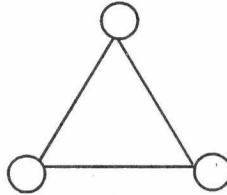
**Note :** *Answer the following question. It carries 20 marks and the viva-voce is for 5 marks.*

1. Write a program using JSP that accepts the enrollment number as input and prints the list of programmes to whom the student is enrolled. The program should also display the year and month programme-wise by which the student needs to complete programme successfully. 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 to draw the following figure. 20



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