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MCSL-054/S4

**Master of Computer Application  
(Revised) (MCA)**

**Term-End Examination**

**December, 2018**

**LABORATORY COURSE IN ADVANCED  
INTERNET TECHNOLOGIES AND  
COMPUTER GRAPHICS AND  
MULTIMEDIA**

*Time : 2 Hours*

*Maximum Marks : 50*

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- Note :** (i) There are two Parts in this paper.  
(ii) Each Part is of 1 hour duration.  
(iii) Attempt only that Part(s) in which you are not yet successful.
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**Part—I**

**(Advanced Internet Technologies)**

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

1. Write a JSP program using JDBC to manage issue and returning of books in a library. Make necessary assumptions. 20

**Part—II**

**(Computer Graphics and Multimedia)**

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

2. Implement Cohen-Sutherland line clipping algorithm in C/C++ using open GL. 20