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MCSL-054/S2

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 program using JSP and JDBC to keep records of attendance of practical counselling classes of courses MCSL-045 and MCSL-054. The program should provide the percentage of attendance in counselling classes after taking student enrollment number as input. 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. Write a program in C/C++ using OpenGL that draws the following figure : 20

