MCSL-216 (Set-1)
MASTER OF COMPUTER APPLICATIONS
(MCA-NEW)
DAA and Web Design Lab

Duration : 2 hours   Maximum Marks : 50

Note: 1. This question paper comprises of two Compulsory Questions, each of 20 marks.

     2. Rest 10 marks are for viva-voce.

1. (a) Implement Fractional Knapsack algorithm and find out optimal result for the problem instance given below: 10

$(P_1, P_2, P_3, P_4, P_5) = (20, 30, 40, 32, 55)$

$(W_1, W_2, W_3, W_4, W_5) = (5, 8, 10, 12, 15)$

Given Maximum Knapsack capacity $= 20$

   (b) Implement multiplication of two matrices A[4, 4] and B[4, 4] and calculate following: 10

    (i) How many times the innermost and the outermost loop will run?

    (ii) Total number of multiplication and additions in computing the multiplication of given matrices.

2. Design a form for booking room through a Hotel website. The form should have relevant fields (make suitable assumptions). Further, the form should have Submit and Reset button. Now, perform following: 20

   (a)   Use java script to validate all the fields in the form.

   (b)   Submit button should enter the data of fields in the database.

   (c)   Error message should be shown if text field is left blank.

   (d)   Reset button should reset all the fields to blank.

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