

**MASTER OF COMPUTER
APPLICATIONS
(MCA-NEW)**

**Term-End Practical Examination
June, 2025**

**MCSL-216(SET-IV) : DAA AND WEB DESIGN
LAB**

Time : 2 Hours

Maximum Marks : 50

Note : (i) This question paper comprises of two compulsory questions, each of 20 marks.

(ii) Rest 10 marks are for viva-voce.

1. (a) Implement the fractional Knapsack algorithm and find out optimal result for the following problem instance : 10
 $(P_1, P_2, P_3, P_4, P_5, P_6, P_7) = (15, 5, 20, 8, 7, 20, 6)$
 $(W_1, W_2, W_3, W_4, W_5, W_6, W_7) = (3, 4, 6, 8, 2, 2, 3)$
Maximum Knapsack capacity = 18.

[2]

(b) Implement selection sort algorithm to sort the following list of numbers : 10

55 25 15 40 60 35 17 65 75 10

2. Design a form for booking appointment with a doctor. The form should have relevant fields (make suitable assumptions). Further, the form should have submit and reset button. Now, perform the following : 20

- (a) Use JavaScript to validate all the fields in the form.
- (b) Submit button should enter the data of the form fields in the database.
- (c) Reset button should reset all the fields to blank.
- (d) While submitting the form, error message should be shown, if any field in the form is left blank.

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