

No. of Printed Pages : 3 **MCSL-216(Set-III)**

**MASTER OF COMPUTER
APPLICATIONS (MCA-NEW)
Term-End Practical Examination
December, 2024**

MCSL-216(Set-III) : DAA & 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.*

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1. (a) Implement Bubble sort algorithm for the following list of numbers : 10

55, 25, 15, 40, 60, 35, 17, 65, 75, 10

Calculate the following :

- (i) Number of exchange operations are performed.
- (ii) Number of times comparison operations are performed.
- (iii) Number of times the inner and outer loop will iterate.

- (b) Implement Huffman's coding algorithm and run on the problem instance given below : 10

Letters	Frequency
A	10
B	7
I	15
M	8
S	10
X	5
Z	2

2. Design a form to take admission in any course offered by any university through its website. The form should have relevant fields. (Make suitable assumptions). The form should have submit and reset button. Now, perform the following : $5+5+5+5=20$

- (a) Use JavaScript to validate all the fields in the form.

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- (b) Submit button should enter data of fields into the database.
- (c) Error message should be shown if any text field is left blank.
- (d) Reset button should reset all the fields to blank.

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