

# Govt. Women Engineering College, Ajmer

## Department of Computer Science and Engineering

M. Tech I Semester II<sup>nd</sup> Mid Term Examination – November 2017

Subject: ADS

Subject Code: MCS1

Time: 1 Hr.

Max. Marks: 25

Date of Examination: 15/11/2017

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Q.1 Explain the AA with vertex cover problem. And prove that vertex cover problem is 2-approximate algorithm (AA).

[7]

Q.2 Solve the following linear programming problem using simplex method. [7]

Maximize:  $7x_1 + 8x_2 + 10x_3$

Subject to:  $x_1, x_2, x_3 \geq 0$

$2x_1 + 3x_2 + 2x_3 \leq 1000$

$1x_1 + 1x_2 + 2x_3 \leq 800$

Q.3 Write short note on any of one (a) String matching with FA (b) Rabin Karp matching algorithm. [4]

Q.4 For the given network, find the maximum flow from S to T, using Ford Fulkerson Method. [7]

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