Govt. Women Engineering College, Ajmer

 Department of Computer Science and Engineering

 M. Tech I Semester IInd Mid Term Examination – November 2017

 Subject: ADS
 Subject Code: MCS1

 Time: 1 Hr.
 Max. Marks: 25
 Date of Examination: 15/11/2017

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 Maximize: $7x_1$ - Subject to: x_1 , $x_2x_1 + 3x_2 +$	linear programming prob + $8x_2 + 10x_3$ 2, $x_3 \ge 0$ $2x_3 \le 1000$	blem using simplex method.	[7]
$1x_1 + 1x_2 + 2$ Q.3 Write short note on a Q.4 For the given networ	$2x_3 \le 800$ any of one (a) String ma k, find the maximum flo	tching with FA (b) Rabin Karp matching algorithm. ow from S to T, using Ford Fulkerson Method.	[4] [7]
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