

St. Mira's College for Girls, Pune
(Autonomous-Affiliated to SavitribaiPhule Pune University)
Subject: Mathematics Paper II Graph Theory BS22003
SEMESTER: II
Year 2020-2021

1. Unit No.: 2
2. Employability/Entrepreneurship/Skill development
Skill Development : Problem Solving, computing skills
3. Test on Connected graphs – Dijkstra's Algorithm - helps in problem solving, decision making

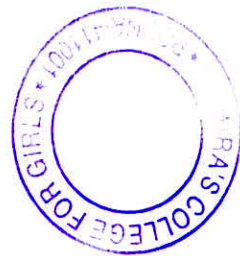
The screenshot shows a PDF document titled "S419_FLEX2_Mt.pdf". The problem asks to find the shortest path from vertex 'a' to every other vertex of a graph. The graph has vertices a, b, c, d, e, f and edges with weights: (a,b)=2, (a,c)=6, (a,f)=1, (b,c)=3, (b,d)=5, (c,d)=3, (d,e)=5, (f,d)=4.

Q1. Find the shortest path from vertex a to every other vertex of the following graph.

Solution Table 1

v	a	b	c	d	e	f
$\lambda(v)$	0					

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G. M. Phadnis
Gitanjali Phadnis

JK
Principal Incharge
St. Mira's College for Girls