
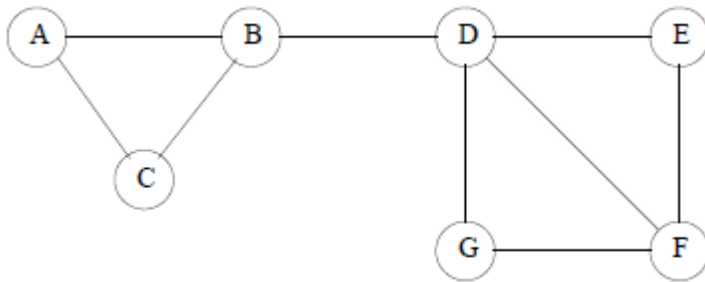


National University of Computer and Emerging Sciences, Lahore Campus

	Course:	Social Network Analysis	Course Code:	DS5115
	Program:	MS(Data Science)	Semester:	Spring 2019
	Duration:	10 Minutes	Total Marks:	15
	Paper Date:	12-Mar-19	Weight	3
	Section:	MS(DS)	Page(s):	1
	Exam:	Quiz 2	Roll No:	

Consider the following graph/network



- Perform BFS on the above graph with G as start node
- Count the total number of shortest paths for each pair (G, v) where $v \in \{A, B, C, D, E, F\}$
- Determine the amount of flow from G to all other nodes that uses each edge