

Subject: DM

SEM: 04

AY: 2024-25

Tutorial-2
Unit: Graphs & Trees

1	<p>For each of the given Graph G, draw diagram of subgraphs $G - \{A\}$, $G - \{F\}$, $G - \{h\}$.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>1]</p> </div> <div style="text-align: center;"> <p>2]</p> </div> </div>	Evaluate
2	Find the number of edges in a r-regular graph with n-vertices.	Evaluate
3	Define 1) Open Walk 2) Closed Walk 3) Circuit 4) Trail 5) Path 6) Cycle	Remembering
4	<p>Evaluate 3 walks, 3 paths and 3 cycles for the following graph.</p>	
5	Does a 3-regular graph with 5 vertices exists?	Evaluate
6	Define (1) Hamiltonian Graph (2) Euler Graph (3) Petersen graph.	Remembering
7	<p>Check the following are Hamiltonian graph or not.</p> <p>1]</p>	Understanding

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	<p>2] 83] 4]</p>	
8	<p>Is the graph Eulerian? Explain your answers. Also check for Hamiltonian graph?</p> <p>1] 2]</p>	Understanding
9	<p>What is Petersen graph? Is the graph Hamiltonian? Is it Eulerian? Explain your answers.</p>	Understanding
10	<p>Is the graph Hamiltonian? If no, why not? If yes, find all Hamiltonian cycles.</p>	Understanding