

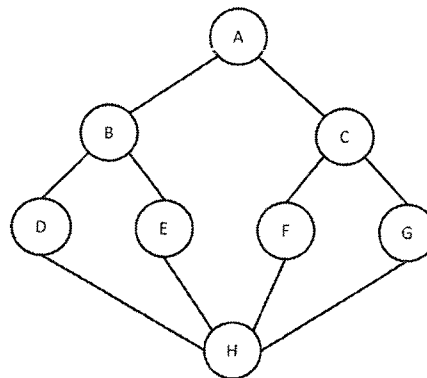
IMSc (AIML) (NEP) Sem.-1 Examination
DSC-M-113T
AIML and Data Science Environment
February-2025

Time : 1-00 Hour]

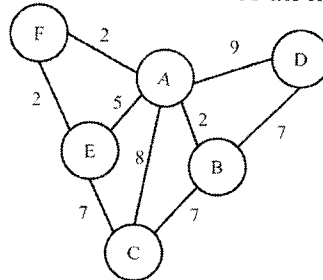
[Max. Marks : 25

Attempt any **FIVE** out of **SEVEN**: (Each carries 5 marks)

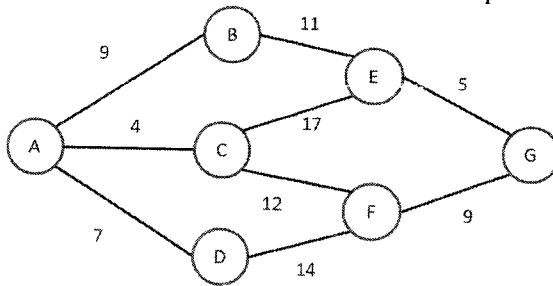
- Q.1 What is Machine Learning? Explain in detail.
- Q.2 What is Artificial Intelligence? Explain : Why AI is important.
- Q.3 Give the difference between AI & ML.
- Q.4 What is called Data? Explain with its types.
- Q.5 Using Breadth first search algorithm find the shortest path between A to H.



Q.6 Apply Dijkstra algorithm and find the shortest distance for all nodes.



Q.7 Using A* search algorithm find the shortest path between G to A.



Node	Heuristic value
A	21
B	14
C	18
D	18
E	5
F	8
G	0
