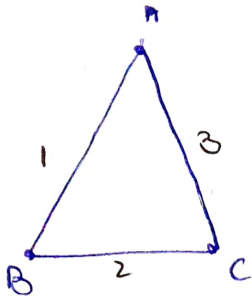


GRAPH THEORY

13/08/2024

- Pictorial representation of daily life situation using some points and lines.



- pictorial representation of 3 angles
- Three vertices, A, B, C
- Three lines.

$V = \{v_1, v_2, \dots, v_n\}$ vertices

$E = \{e_1, e_2, e_3, \dots, e_m\}$ edges

30%, 40% questions from Unit II:

Trees are there in BIT, DSPM & DM

- NULL has only vertices

e.g.

e.g. Four people being silent in a room.

people \rightarrow vertices

communication \rightarrow edges.

Course Objectives:

- Due to its simplicity, graph theory has a wide range of applications in engineering. This subject is also used in social science, linguistics and in numerous areas.
- In this course, we will come across a no. theorems & proofs, we will have to ~~proof~~ prove them using various techniques i.e., mathematically, or conceptually.

Outcome:

- Graph has applications in areas like Computer Networking, Social Network Analysis, SE, etc.

Grading:

Internal : 20 marks

Midterm : 30 marks

End-term : 50 marks.