



SCAN ME



VIT

Vellore Institute of Technology

Continuous Assessment Test – I

Programme Name & Branch: BTech CSE

Course Name & Code: CSE 3013 Artificial Intelligence

Class Number: VL2019205007001

Slot: E1-TE1

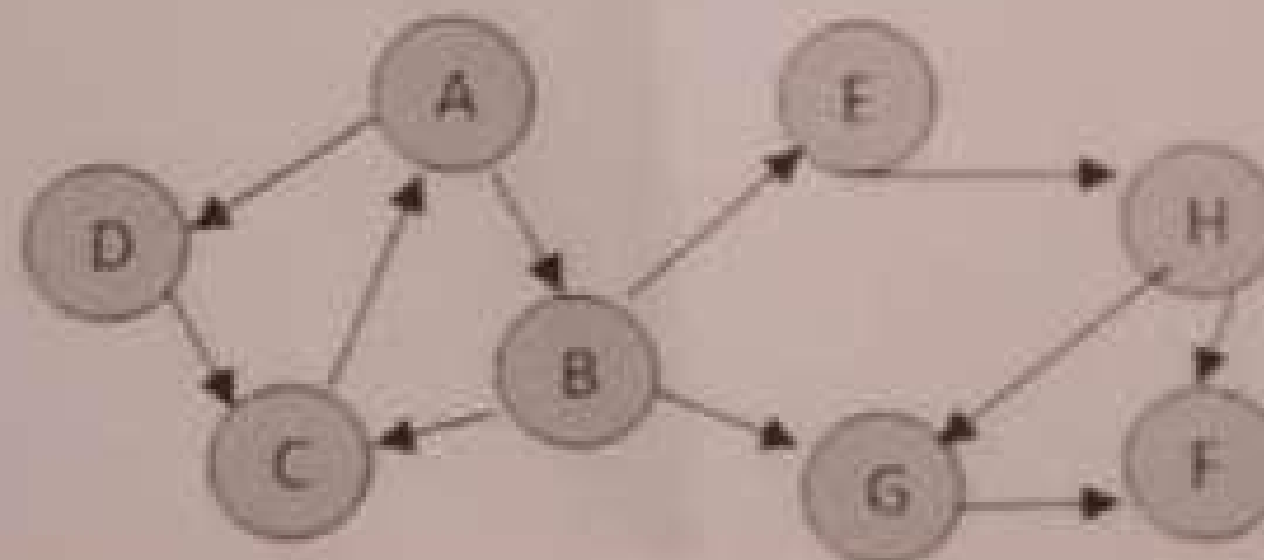
Faculty Name: Dr Preetha Evangeline

Exam Duration: 90 Mins

Maximum Marks: 50

Section – A (4 x 5 = 20)

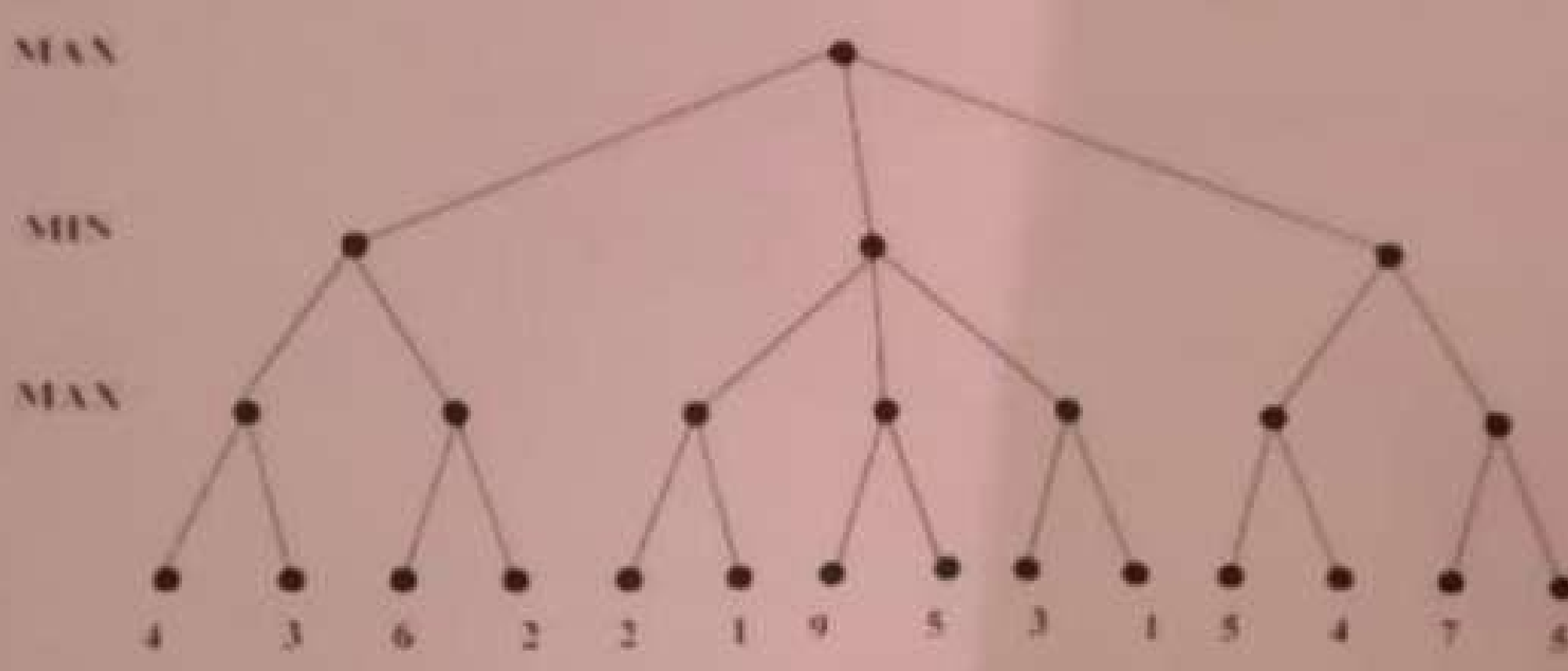
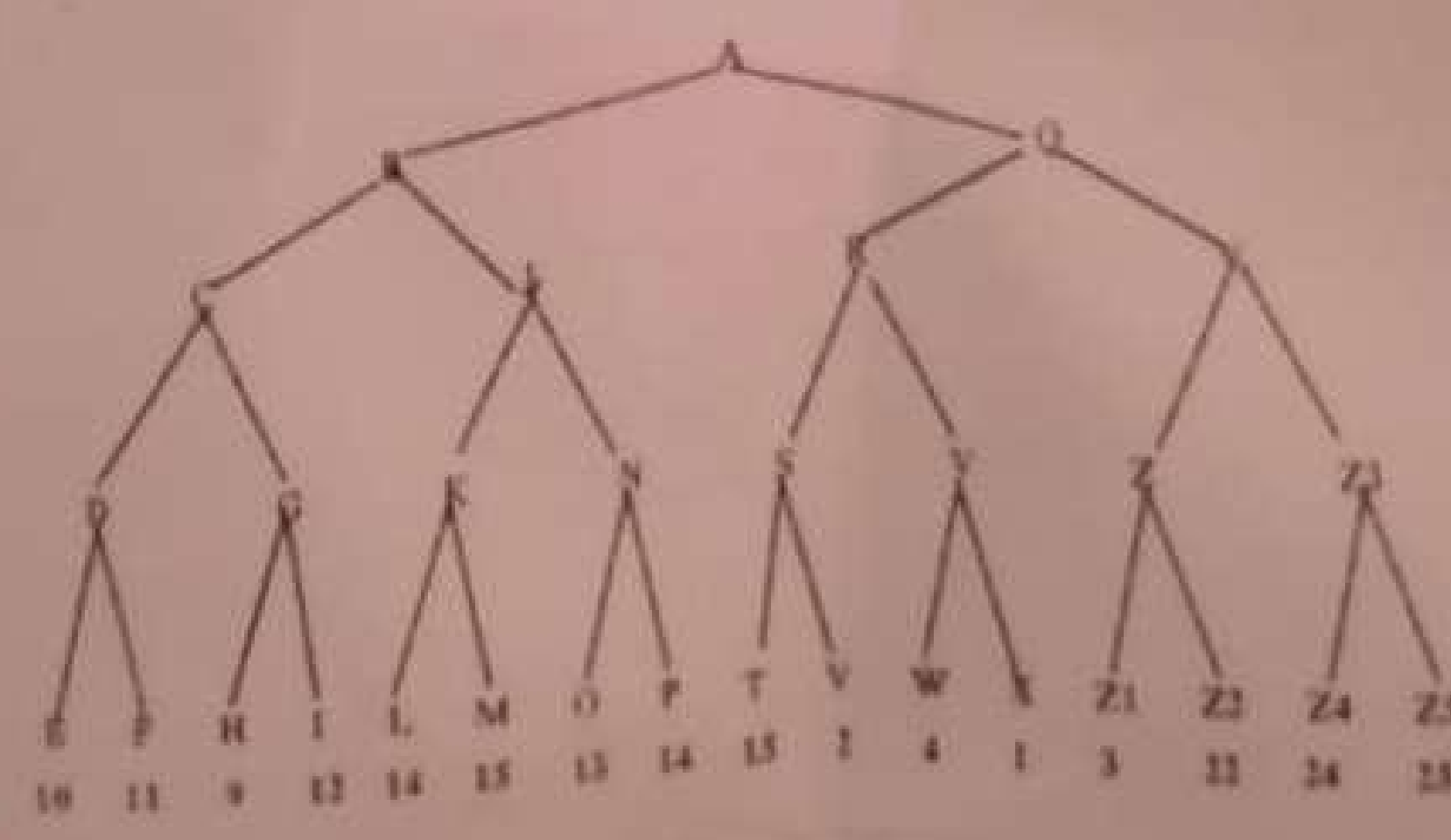
S.No	Questions	Course Outcome (CO)
1.	"AI cannot replace Humans" is the statement true? Justify your answer. Specify few crucial fields in which Human Touch is required.	CO1
2.	Mention the significant purposes of Artificial Intelligence in terms of Expert Systems.	CO2
3.	Mention the Types of Ambiguity and the difference between each of them which serves as a challenge in Natural Language Processing.	CO2
4.	Consider the following graph. In what order will the nodes be visited using a (i) Breadth First Search and (ii) Depth First Search?	CO4



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Section – B (3 x 10 = 30)

5.	<p>From the Following Figure,</p> <pre> graph LR S((S)) --- 1 A((A)) A((A)) --- 2 B((B)) A((A)) --- 1 C((C)) B((B)) --- 2 D((D)) C((C)) --- 1 D((D)) D((D)) --- 2 G((G)) S((S)) --- 12 G((G)) </pre> <p>(a) What path would breadth-first graph search return for this search problem? S – G</p> <p>(b) What path would uniform cost graph search return for this search problem? S – A – C – G</p>	CO4
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	<p>(c) What path would depth-first graph search return for this search problem? $S - A - B - D - G$</p> <p>(d) What path would A* graph search, using a consistent heuristic, return for this search problem? $S - A - C - G$</p>	
6.	<p>(a) Explain in detail about Alpha Beta Pruning technique and solve the given problem using the same to find out all the unvisited nodes in the given tree.</p>  <p>(b) Perform the minimax algorithm on the figure below</p> 	CO4
7.	<p>For each of the following agents develop a PEAS Description of the task environment.</p> <p>(a) Medical Diagnostic System</p> <p>(b) Taxi Driver</p> <p>(c) Internet Book Shopping Agent</p> <p>(d) Robot Soccer player</p>	CO3