

**KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION**

(Deemed to be University)

Anand Nagar, Krishnankoil – 626 126,

**END SEMESTER EXAMINATIONS –DEC 2024**

Course Code	: MAN18R001	Duration	: 90 Minutes
Course Name	: Environmental Science	Max. Marks	: 50
Degree/ Year/ Section	: B.Tech.	Date & Session	:

<b>PART - A (5 x 2 = 10 Marks)</b> <b>Answer All Questions</b>		<b>Pattern</b>	<b>Mapping COs</b>	<b>Marks</b>
1	State the significance and scope of environmental education.	Remember	CO1	2.0
2	Mention the consequences of flood.	Understand	CO2	2.0
3	What is meant by eutrophication?	Understand	CO3	2.0
4	What is the ecological benefit?	Understand	CO4	2.0
5	Define waste lands and their types.	Understand	CO5	2.0

<b>PART – B(40 Marks)</b> <b>Answer All Questions</b>		<b>Pattern</b>	<b>Mapping COs</b>	<b>Marks</b>
6.A	Explain the major causes and consequences and prevention of deforestation.	Understand	CO1	16.0
7.A	Discuss the role of an individual in conservation of natural resources.	Understand	CO3	16.0
8.A	Explain the various renewable energy sources in the earth	Understand	CO5	8.0

<b>Assessment Pattern as per Bloom's Taxonomy:</b>							
<b>COs</b>	<b>Remember</b>	<b>Understand</b>	<b>Apply</b>	<b>Analyze</b>	<b>Evaluate</b>	<b>Create</b>	<b>Total</b>
CO1	2.0	16.0	0	0	0	0	18
CO2	0	2.0	0	0	0	0	2
CO3	0	18.0	0	0	0	0	18
CO4	0	2.0	0	0	0	0	2
CO5	0	10.0	0	0	0	0	10
<b>Total</b>	<b>2</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>

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# KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

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Anand Nagar, Krishnankoil – 626 126.

## SESSIONAL EXAMINATION – I – ODD SEMESTER [2024-2025]

Course Name/Code	OPERATING SYSTEMS/212CSE3303	Date & Session	:	
Degree/Branch	B. TECH /CSE	Duration	:	90 Minutes
Semester/Section	V	Max. Marks	:	50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
12	18	10	10			50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO1	Understand and Interpret Operating System Structure, Operations, Services and Process.
CO2	Apply various scheduling algorithms for Process/CPU Scheduling and elaborate multithreaded programming.

PART – A (5 x 2 = 10 Marks) Answer All Questions		Pattern	Mapping COs	Marks
1.	Show the main goals of an operating system	Apply	CO1	2
2.	Summarize the difference between monolithic and Microkernels.	Analyze	CO1	2
3.	List the advantages of VM.	Remember	CO1	2
4.	Recall the term "throughput"	Understand	CO2	2
5.	List the advantages of using threads.	Remember	CO2	2
PART – B (5x8=40) Answer All Questions		Pattern	Mapping COs	Marks
6.	Describe the operating system structures.	Understand	CO1	8
7.	Define the essential properties of the following operating systems. a) Batch b) Interactive c) Time sharing d) Real time e) Distributed	Remember	CO1	8
8.	Extend the diagrammatic representation of process life cycle.	Understand	CO2	8

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9.	<p>How is Process Scheduling Carried Out? Imagine you are using a computer with a multitasking operating system like Windows or Linux, where you have multiple applications open simultaneously. These applications include:</p> <p>A Web Browser A Text Editor A Music Player A Background Virus Scan</p> <p>Each of these applications represents a process that needs CPU time to function. Since the CPU can only handle one task at a time, the operating system must decide how to allocate CPU time to each process.</p>	Analyze	CO2	8																		
10.	<p>Explain First Come First Serve</p> <p>Consider the set of 5 processes whose arrival time and burst time are given below</p> <table><tr><th>Process Id</th><th>Arrival Time</th><th>Burst Time</th></tr><tr><td>P1</td><td>3</td><td>4</td></tr><tr><td>P2</td><td>5</td><td>3</td></tr><tr><td>P3</td><td>0</td><td>2</td></tr><tr><td>P4</td><td>5</td><td>1</td></tr><tr><td>P5</td><td>4</td><td>3</td></tr></table> <p>If the CPU scheduling policy is FCFS, calculate the average waiting time and average turnaround time.</p>	Process Id	Arrival Time	Burst Time	P1	3	4	P2	5	3	P3	0	2	P4	5	1	P5	4	3	Apply	CO2	8
Process Id	Arrival Time	Burst Time																				
P1	3	4																				
P2	5	3																				
P3	0	2																				
P4	5	1																				
P5	4	3																				

Assessment Summary:							
COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO1	10	8	2	2			22
CO2	2	10	8	8			28



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# Kalasalingam Academy of Research and Education

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Anand Nagar, Krishnankoil – 626 126.

## SESSIONAL EXAMINATION – I – ODD SEMESTER [2024-2025]

Course Name/Code	Natural Language Processing Techniques / 213CSE3303	Date & Session	:	
Degree/Branch	Bachelor of Technology / Computer Science and Engineering	Duration	:	90 Minutes
Semester/Section	V-semester / AIML stream	Max. Marks	:	50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
12	12	18	8	0	0	50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO1	Understand Ambiguity of NLP, Challenges, and applications of NLP.
CO2	Illustrate NLP Techniques such as POS, Morphology, Text Preprocessing.

### PART – A (5 x 2 = 10 marks)

#### Answer All Questions

	Pattern	Mapping COs	Marks
1. Which of the following statements is true? (i) The statements "What's your father?" and "What's your father's name?" are semantically similar. (ii) Morphological analysis is done at word level and Syntactic analysis is done at statement level. (iii) Defining the purpose of writing a sentence is Pragmatics. (iv) Phonetics is related to the study of optics and acoustics.  (A) statements (i) and (ii). (B) statements (ii) and (iii). (C) statements (i), (ii) and (iii). (D) statements (ii), (iii) and (iv).	Remember	CO2	(2)
2. List out the real-life applications of NLP.	Remember	CO1	(2)
3. Justify that the below sentence has Semantic Ambiguity.  "Tim and Tin bought a car in London".	Apply	CO1	(2)
4. Distinguish between Stemming and Lemmatization with examples.	Understand	CO2	(2)



5.	Mr. X is looking for a concept to be used in his project which can segregate essential named data from a lot of redundant data. He thinks that it would be also helpful if he can further get categorical names to the named data. As an NLP Intern, you're being tasked to help him to solve his query. How will you solve it?	Understand	CO2	(2)
<b>PART – B (40 marks)</b> <b>Answer All Questions</b>		<b>Pattern</b>	<b>Mapping COs</b>	<b>Marks</b>
6.	Write short notes on the below: (a) Text Classification (4 marks) (b) Sentiment Analysis (4 marks)	Remember	CO1	(8)
7.	How TF-IDF ratio and Cosine Similarity scores can be used to retrieve information. Ponder your ideas with a simple flow diagram.	Analyze	CO1	(8)
8.	Ms. B is an Intern working for a company XYZ. She has been tasked to develop a toolkit which will be able to analyze the given inputs at different stages, starting from each alphabet till sentences and finally defining the contextual purpose of the input. However, as she has very limited knowledge about these processes, she posted an advertisement online that she is looking for desperate help and adds that she is ready to pay 500USD if you can help her. Try helping her out and claim the rewards. <b>Note:</b> You need to help her out by providing suitable examples, where applicable.	Understand	CO1	(8)
9.	Tag the input sentence with corresponding POS Tags by using Hidden Markov Model - "bill can mill can" (12 marks) You can use the below training dataset to tag the above sentence appropriately. Document 1: Mill Jill will bill can. Document 2: Can can bill Bill. Document 3: Can Bill mill can? Document 4: Jill will mill can.  What are the limitations that you can notice in HMM-based POS Tagging? How to overcome them? Justify your answers. (4 marks)	Apply	CO2	(16)

#### Assessment Summary:

COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO1	10	8	2	8	0	0	28
CO2	2	4	16	0	0	0	22

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## SESSIONAL EXAMINATION – I- ODD SEMESTER

[2024-2025]

Course Name/Code	SOFTWARE ENGINEERING/ 212CSE2303	Date & Session	:	
Degree/Branch	B.Tech/CSE	Duration	:	90 Minutes
Semester/Section	V	Max. Marks	:	50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
14	18	8	10	-	-	50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO1	Create a list of use cases, classes, objects out of the given problem summary
CO2	Develop the steps in each phase of the software development model

### PART – A (5 x 2 = 10 Marks)

Answer All Questions

	Pattern	Mapping COs	Marks
1. Define "Spiral model".	Remember	CO1	2
2. List the five activities in the generic process framework.	Remember	CO1	2
3. List the characteristics of software	Remember	CO1	2
4. Classify Interactive Data Flow Diagrams and Interactive State Diagrams	Understand	CO2	2
5. Distinguish sequence diagrams from communication diagrams?	Analyze	CO2	2

### PART – B (5x8=40)

Answer All Questions

	Pattern	Mapping COs	Marks
6. List how "Umbrella activities" help to make a software engineering project successful in the context of a software engineering process framework?	Remember	CO1	8
7. Explain the V model. State the advantages and disadvantages of the V model over the other models?	Understand	CO1	8
8. Classify the different phases of the process	Understand	CO1	8
9. Demonstrate and explain the use-case and class diagram for library management system	Apply	CO2	8
10. Illustrate the steps in the system sequence diagram for the online exam system.	Analyze	CO2	8

### Assessment Summary:

COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO1	14	16	0	0	-	-	30
CO2	0	2	8	10	-	-	20



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**SESSIONAL EXAMINATION – I – ODD SEMESTER [2024-2025]**

Course Name/Code	OPERATING SYSTEMS/212CSE3303	Date & Session :	31.08.2024/FN
Degree/Branch	B. TECH /CSE	Duration :	90 Minutes
Semester/Section	V	Max. Marks :	50 Marks

**Assessment Pattern as per Bloom's Taxonomy:**

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
2	22	16	10			50

**Course Outcomes for Assessment in this Test:**

COs	Course Outcome
CO1	Understand and Interpret Operating System Structure, Operations, Services and Process.
CO2	Apply various scheduling algorithms for Process/CPU Scheduling and elaborate multithreaded programming.

**PART – A (5 x 2 = 10 Marks)**

**Answer All Questions**

	Pattern	Mapping COs	Marks
1. Define an Operating System.	Understand	CO1	2
2. List out the types of networks based operating systems.	Remember	CO1	2
3. Distinguish between multiprogramming and multitasking.	Understand	CO1	2
4. Explore some of the states of processes.	Understand	CO2	2
5. Analyze the structure and function of a PCB.	Analyze	CO2	2

**PART – B (5x8=40)**

**Answer All Questions**

PART – B (5x8=40) Answer All Questions			Pattern	Mapping COs	Marks	
6.	Explain the various types of operating system.		Understand	CO1	8	
7.	Describe the operating system structures.		Understand	CO1	8	
8.	Analyze the potential drawbacks of using a layered approach in system design. What specific challenges or limitations might occur when applying this design strategy?		Analyze	CO2	8	
9.	Consider the set of 5 processes whose arrival time and burst time are given below-		Apply	CO2	8	
	Process Id	Arrival Time				Burst Time
	P1	3				4
	P2	5				3
	P3	0				2
	P4	5				1
	P5	4				3
If the CPU scheduling policy is SJF- preemptive, calculate the average waiting time and average turnaround time.						



10.	Describe the working principles of round robin scheduling algorithm and calculate average turnaround time and waiting time for the following processes, Consider time quantum = 2ms		Apply	CO2	8
	Process Id	Arrival Time			
	P1	2			
	P2	1			
	P3	3			

Process Id	Arrival Time	Burst Time
P1	2	4 2
P2	1	3 1X
P3	3	5 3

Assessment Summary:							
COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO1	2	20					22
CO2		2	16	10			28

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## SESSIONAL EXAMINATION - I- ODD SEMESTER [2023-2024]

Course Name/Code	Design and Analysis of Algorithm / 212CSE3301	Date & Session	:	22.10.2024/ FN
Degree/Branch	B.Tech /CSE	Duration	:	90 Minutes
Semester/Section	V Sem. / (all CSE sections)	Max. Marks	:	50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
4	10	36				50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO3	Apply and Analyze Backtracking and Branch & Bound strategies to solve combinatorial and combinatorial optimization problems respectively
CO4	Understand Tractable and Intractable problems and apply reduction techniques to find problem classes

### PART - A (5 x 2 = 10 Marks)

#### Answer All Questions

	Pattern	Mapping COs	Marks
1. What is Back tracking define with example.	Remember	CO3	2
2. How the state space tree are applied in Backtracking and branch and bound techniques.	Understand	CO3	2
3. Define Heuristics			
4. Define Cook's theorem.	Remember	CO3	2
5. Differentiate P and NP class problems.	Remember	CO4	2
	Remember	CO4	2

### PART - B (5x8=40)

#### Answer All Questions

	Pattern	Mapping Cos	Marks
6. Solve the subset sum problem and five 3 subset solutions which will give the sum as 9 from the Set = [ 2,3,4,5,6,7].	Apply	CO3	8
7. Apply Backtracking approach to solve 8-Queen's problem and give 3 feasible solutions.	Apply	CO3	16
8. Describe in detail about the intractability in standard NP-complete problems	Apply	CO4	16

### Assessment Summary:

COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO3	4	2	24				30
CO4	4		16				20

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# KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

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## SESSIONAL EXAMINATION – II – ODD SEMESTER [2024-2025]

Course Name/Code	212CSE3303/Operating Systems	Date & Session	: 22.10.2024/AN
Degree/Branch	B.Tech(CSE)	Duration	: 90 Minutes
Semester/Section	V	Max. Marks	: 50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
6	26	16	2			50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO3	Apply different methods for handling deadlocks and elaborate process synchronization.
CO4	Analyze the efficiency of various page replacement algorithms for memory management.

#### PART – A (5 x 2 = 10 Marks)

Answer All Questions

	Pattern	Mapping COs	Marks
1. Define co-operating process and independent process.	Remember	CO3	2
2. What are the requirements of solving the critical-section problem?	Understand	CO3	2
3. How can we prevent the occurrence of a deadlock?	Remember	CO3	2
4. What are the differences between First-fit placement and best-fit placement?	Analyze	CO4	2
5. What is the demand paging?	Remember	CO4	2

#### PART – B (5x8=40)

Answer All Questions

	Pattern	Mapping COs	Marks
6. Discuss in detail about Producer-Consumer problem using Semaphores.	Understand	CO3	8
7. Consider we have five processes P0, P1, ... P5 and three resources A, B, and C. Is executing the following processes in the safe state?	Apply	CO3	8



Process	Allocation			Maximum need			Available		
	A	B	C	A	B	C	A	B	C
P0	1	2	0	2	2	2	0	1	0
P1	1	0	0	1	1	0			
P2	1	1	1	1	4	3			
P3	0	1	1	1	1	1			
P4	0	0	1	1	2	2			
P5	1	0	0	1	5	1			

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8. Consider the following page reference using four frames that are initially empty. Find the page faults using LRU algorithm, where the page reference sequence: 5,2,5,1,4,5,2,0,4,2,3,1,2,1,0,0,2,4,5,1	Apply	CO4	8
9. Discuss in detail about memory management techniques.	Understand	CO4	16

Assessment Summary:								
COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total	
CO3	4	10	8				22	
CO4	2	16	8	2			28	

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$$\begin{array}{r}
 17 \times 10 (1.1) \\
 \underline{17} \\
 30 \\
 17 \times 20 (2.85) \\
 \underline{17} \\
 3 \\
 60 \\
 \underline{56} \\
 40
 \end{array}$$



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## SESSIONAL EXAMINATION – I– ODD SEMESTER

[2023-2024]

Course Name/Code	Design and Analysis of Algorithm / 212CSE3301	Date & Session	:	
Degree/Branch	B.Tech /CSE	Duration	:	90 Minutes
Semester/Section	V Sem. / (all CSE sections)	Max. Marks	:	50 Marks

### Assessment Pattern as per Bloom's Taxonomy:

Remember	Understand	Apply	Analyze	Evaluate	Create	Total
6	2	42				50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO1	Understand the characteristics and types of algorithms and use asymptotic notations to analyze the performance of algorithms
CO2	Analyze the differences in design techniques and apply Greedy and Dynamic Programming strategies to solve Optimization problems

### PART – A (5 x 2 = 10 Marks)

#### Answer All Questions

		Pattern	Mapping COs	Marks
1.	Define Big Omega with neat sketch .	Understand	CO1	2
2.	Find the GCD of 45 and 18 using Euclidean Algorithm.	Apply	CO1	2
3.	Draw the recurrence Tree for the following algorithm: Void Test(int n) { if (n>0) { For(i=0; i<n;i++) { Print(n);} Test(n-1); }}}	Remember	CO1	2
4.	Write about the working of Divide and Conquer Algorithms.	Remember	CO2	2
5.	Define Greedy Algorithms with example.	Remember	CO2	2



PART – B (5x8=40) Answer All Questions		Pattern	Mapping COs	Marks														
6.	Write the Master's theorem equation with 3 cases (3) and find the time complexity for following recurrence relation(5). (i) $T(n) = \sqrt{2} T(n/2) + \log n$ (ii) $T(n) = 3T(n/2) + n^2$	Apply	CO1	8														
7.	Write the algorithm of Tower of Hanoi (3) and derive the recurrence equation(3) then solve the equation using Substitution Method(10)	Apply	CO1	16														
8.	Apply Karatsuba algorithm for the following problem. $5432 * 1678 = ?$	Apply	CO2	8														
9.	What is an optimal Huffman code for the following set of frequency. <table><tr><td>Character</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr><tr><td>Frequency</td><td>45</td><td>13</td><td>12</td><td>16</td><td>9</td><td>5</td></tr></table>	Character	A	B	C	D	E	F	Frequency	45	13	12	16	9	5	Apply	CO2	8
Character	A	B	C	D	E	F												
Frequency	45	13	12	16	9	5												

Assessment Summary:							
COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
Co1	2	2	26				30
CO2	4		16				20



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## SESSIONAL EXAMINATION – I– ODD SEMESTER [2023-2024]

Course Name/Code	Design and Analysis of Algorithm / 212CSE3301	Date & Session	: 31.08.24/AN
Degree/Branch	B.Tech /CSE	Duration	: 90 Minutes
Semester/Section	V Sem. / (all CSE sections)	Max. Marks	: 50 Marks
Course Outcomes for Assessment in this Test:			

COs	Course Outcome
CO1	Understand the characteristics and types of algorithms and use asymptotic notations to analyze the performance of algorithms
CO2	Analyze the differences in design techniques and apply Greedy and Dynamic Programming strategies to solve Optimization problems

PART – A (5 x 2 = 10 Marks)		Pattern	Mapping COs	Marks															
Answer All Questions																			
1.	What is Time-Space trade-off.	Understand	CO1	2															
2.	Find the time complexity of following code. for(i=0; i<n ;i*2) { Print(i); }	Apply	CO1	2															
3.	List out the characteristics of algorithm	Remember	CO1	2															
4.	Define Brute force algorithm.	Remember	CO2	2															
5.	Solve the job scheduling problem using Greedy Technique . <table border="1" style="margin: 5px auto; border-collapse: collapse;"> <tr> <th>Jobs</th><th>J1</th><th>J2</th><th>J3</th><th>J4</th></tr> <tr> <td>Deadline</td><td>2</td><td>1</td><td>2</td><td>2</td></tr> <tr> <td>Profit</td><td>30</td><td>10</td><td>35</td><td>15</td></tr> </table>	Jobs	J1	J2	J3	J4	Deadline	2	1	2	2	Profit	30	10	35	15	Apply	CO2	2
Jobs	J1	J2	J3	J4															
Deadline	2	1	2	2															
Profit	30	10	35	15															

PART – B (5x8=40)		Pattern	Mapping COs	Marks
Answer All Questions				
6.	Discuss the fundamentals of the Asymptotic Notations with example.	Understand	CO1	8
7.	Solve the following recurrence relations (i) $T(n) = T(n-1) + n$ (ii) $T(n) = T(n/2) + 1$	Apply	CO1	16
8.	Give the answer for the following problem $C[ ] = A[ ] * B[ ]$ using "Strassen Multiplication Method" $A = \begin{bmatrix} 2 & 5 & 3 & 1 \\ 3 & 0 & 1 & 0 \\ 4 & 4 & 2 & 2 \\ 1 & 3 & 7 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 4 & 2 & 0 & 2 \\ 2 & 1 & 3 & 1 \\ 5 & 3 & 8 & 0 \\ 2 & 0 & 2 & 2 \end{bmatrix}$	Apply	CO2	16

### Assessment Summary:

COs	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
1	2	10	18				30
2	2		18				20

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## SESSIONAL EXAMINATION - I - ODD SEMESTER [2024-2025]

Course Name/Code	Deep Learning/213CSE3301	Date & Session	:	
Degree/Branch	B.E/Computer science and Engineering	Duration	:	90 Minutes
Semester/Section	V	Max. Marks	:	50 Marks
Assessment Pattern as per Bloom's Taxonomy:				
Remember	Understand	Apply	Analyze	Evaluate
8	8	32	2	
				Create
				Total
				50

### Course Outcomes for Assessment in this Test:

COs	Course Outcome
CO1	Understand the background and concept of Deep learning
CO2	Understand and apply Single layer and Multi-layer perceptron networks to solve complex learning problems efficiently.

#### PART - A (5 x 2 = 10 Marks)

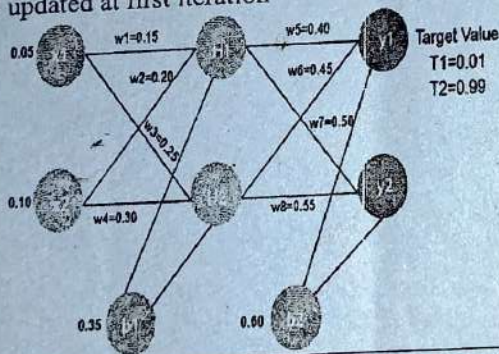
##### Answer All Questions

	Pattern	Mapping COs	Marks
1. Define Deep Learning with examples	Remember	CO1	2
2. Define Learning curve in Models	Remember	CO1	2
3. What is meant by Memory Based Learning?	Remember	CO1	2
4. Differentiate between Training set, Test set and validation set	Analyze	CO2	2
5. Define Epochs in Neural Networks with example	Remember	CO2	2

#### PART - B (40 Marks)

##### Answer All Questions

	Pattern	Mapping COs	Marks
6. Explain various types of Regularizations with example programs in Python	Understand	CO1	8
7. For the Neural network depicted below apply Backward pass and compute the value of Updated weights at the output layer namely W5, W6, W7, W8 updated at first iteration	Apply	CO1	16
8. Explain in detail the various types of Activation Functions in neural networks and consider a 5 input neural network has inputs as 2,0,-1,1 and 3, respective weights are 2,1,1,1,1. Apply any 4 activation function and find the output	Apply	CO2	16



### Assessment Summary:

Cos	Remember	Understand	Apply	Analyze	Evaluate	Create	Total
CO1	6	8	16			-	30
CO2	2		16	2	-	-	20