M.Sc.(Computer Science) Sem-I

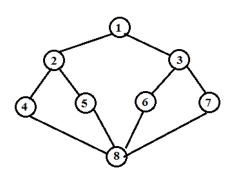
Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Python program that demonstrates the hill climbing algorithm to find the maximum of a mathematical function. (For example $f(x) = -x^2 + 4x$) [10Marks]

Q.2) Write a Python program to implement Depth First Search algorithm. Refer the following graph as an Input for the program. [Initial node=1,Goal node=8][20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 1 -----

M.Sc.(Computer Science) Sem-I

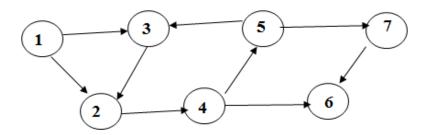
Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Write a python program to generate Calendar for the given month and year?. [10 Marks]

Q.2)Write a Python program to implement Depth First Search algorithm. Refer the following graph as an Input for the program. [Initial node=1,Goal node=7].[20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 2 -----

M.Sc.(Computer Science) Sem-I

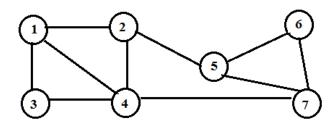
Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Write a python program to remove punctuations from the given string? .[10 marks]

Q.2) Write a Python program to implement Depth First Search algorithm. Refer the following graph as an Input for the program.[Initial node=2,Goal node=7] [20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 3 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours

Max. Marks: 35

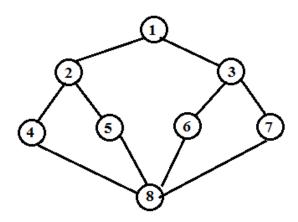
Q.1)Write a program to implement Hangman game using python.

[10 Marks]

Description:

Hangman is a classic word-guessing game. The user should guess the word correctly by entering alphabets of the user choice. The Program will get input as single alphabet from the user and it will matchmaking with the alphabets in the original

Q.2) Write a Python program to implement Breadth First Search algorithm. Refer the following graph as an Input for the program. [Initial node=1,Goal node=8][20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 4 -----

M.Sc.(Computer Science) Sem-I

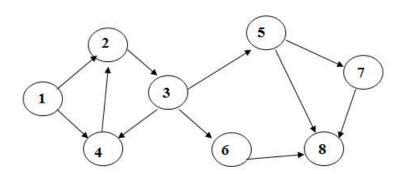
Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Write a python program to implement Lemmatization using NLTK [10 Marks]

Q.2) Write a Python program to implement Breadth First Search algorithm. Refer the following graph as an Input for the program.[Initial node=1,Goal node=8] [20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 5 -----

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Practical Examination (From 2023-2024)

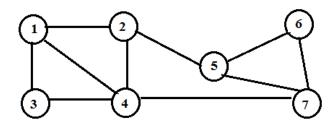
SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Write a python program to remove stop words for a given passage from a text file using NLTK?.

[10 Marks]

Q.2) Write a Python program to implement Breadth First Search algorithm. Refer the following graph as an Input for the program. [Initial node=1,Goal node=8].[20Marks]



Q.3) Viva [**5 Marks**]

----- Slip 6 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1)Write a python program implement tic-tac-toe using alpha b	peeta pruning[10 Marks]
Q.2) Write a Python program to implement Simple Chatbot.	[20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a Python program to accept a string. Find and print the and lower case alphabets.	ne number of upper case alphabets [10 Marks]
Q.2) Write a Python program to solve tic-tac-toe problem.	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time	: 3 Hours	Max. Marks: 35
Q.1)	Write python program to solve 8 puzzle problem using A* algorithm	[10 marks]
Q.2)	Write a Python program to solve water jug problem. 2 jugs with capa are given with unlimited water supply respectively. The target to ach	ieve is 4 gallon of water in
	second jug.	[15 Marks]
Q.3)	Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write Python program to implement crypt arithmetic problem TWO+TWO=FOUR	[10 Marks]
Q.2) Write a Python program to implement Simple Chatbot.	[20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

1 ime	e: 3 Hours	
Q.1)	Write a python program using mean end analysis algorithmpro lowercase letters into another string.	blem of transforming a string of [10 Marks]
Q.2)	Write a Python program to solve water jug problem. Two jug gallon are given with unlimited water supply respectively. The water in second jug.	
Q.3)	Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUDJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)	
Time: 3 Hours	Max. Marks: 35
Q.1) Write a python program to generate Calendar for the given month and ye	ar?. [10Marks]
Q.2)Write a Python program to simulate 4-Queens problem.	[20Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence) Fime: 3 Hours Max. Marks:	
Q.1Write a Python program to implement Mini-Max Algorithm.	[10 Marks]
Q.2) Write a Python program to simulate 8-Queens problem.	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)	
Time: 3 Hours	Max. Marks: 35
Q.1) Write a python program to sort the sentence in alphabetical order?	[10Marks]
Q.2) Write a Python program to simulate n-Queens problem.	[20Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

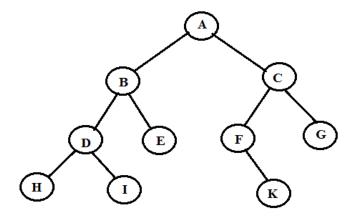
SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1)Write a Program to Implement Monkey Banana Problem using Python [10 Marks]

Q.2) Write a program to implement Iterative Deepening DFS algorithm. [20 Marks]

[Goal Node =G]



Q.3) Viva [**5 Marks**]

----- Slip 15 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a Program to Implement Tower of Hanoi using Python	[10 Marks]
Q.2) Write a Python program to solve tic-tac-toe problem.	[15 Marks]
Q.3) Viva	[5 Marks]
Slip 16	_

M.Sc.(Computer Science) Sem-I

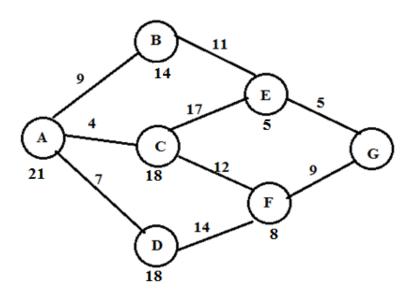
Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

Q.1) Python program that demonstrates the hill climbing algorithm to find the maximum of a mathematical function.[10Marks]

Q.2) Write a Python program to implement A* algorithm. Refer the following graph as an Input for the program. [Start vertex is A and Goal Vertex is G][20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 17 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1).Write a python program to remove stop words for a given p NLTK?. [10Marks]	assage from a text file using
Q.2) Implement a system that performs arrangement of some set of or you have only 5 rectangular, 4 square-shaped objects. Use A* the objects in room for efficient space utilisation. Assume suitable objects and rooms. (Informed Search)	approach for the placement of le heuristic, and dimensions of
objects and rooms. (Informed Search) Q.3) Viva	[20 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours Max. Marks: 35

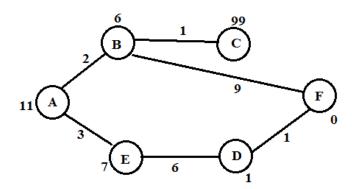
Q.1) Write a program to implement Hangman game using python.

Description:

Hangman is a classic word-guessing game. The user should guess the word correctly by entering alphabets of the user choice. The Program will get input as single alphabet from the user and it will matchmaking with the alphabets in the original word.

[10 Marks]

Q.2) Write a Python program to implement A* algorithm. Refer the following graph as an Input for the program.[20 Marks]



Q.3) Viva [**5 Marks**]

----- Slip 19 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Build a bot which provides all the information related to you in college	[10Marks]
Q.2) Write a Python program to implement Mini-Max Algorithm.	[20Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1)Write a python program to remove punctuations from the given string	?[10 Marks]
Q.2)Write a Python program for the following Cryptarithmetic problems. $GO + TO = OUT$	[20 Marks]
Q.3) Viva	[5 Marks]

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Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a Program to Implement Alpha-Beta Pruning using Python	[10 Marks]
Q.2) Write a Python program to implement Simple Chatbot[20 Marks]	
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1) Write a Program to Implement Tower of Hanoi using Python. [10 Marks	1
Q.2) Write a Python program for the following Cryptarithmetic problems SEND + MORE = MONEY	[20 Marks]
Q.3) Viva	[5 Marks]

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

SUBJECT: CS-505-MJP: Lab Course on CS-502-MJ (Artificial Intelligence)

Time: 3 Hours	Max. Marks: 35
${f Q.1})$ Write a python program to sort the sentence in alphabetical order? $[\ {f 10\ Marks}\]$	
$\mathbf{Q.2}$) Write a Python program for the following Cryptorithmetic problems $\mathbf{CROSS+ROADS} = \mathbf{DANGER}$	[20 Marks]
Q.3) Viva	[5 Marks]

----- Slip 24 -----

M.Sc.(Computer Science) Sem-I

Practical Examination (From 2023-2024)

Time: 3 Hours	Max. Marks: 35
Q.1). Build a bot which provides all the information related to you in college	[10 Marks]
Q.2) Write a Python program to solve 8-puzzle problem.	[20 Marks]
Q.3) Viva	[5 Marks]