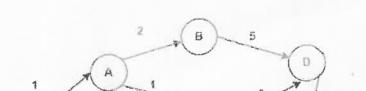


End Term (Even) Semester Examination May-June 2025

					Roll no		***********
Name of the Pro Name of the Co Course Code:	ourse: Fundam						
Time: 3 hours					Maxim	ium Marks:	100
(ii) Answer	questions are or rany two sub quarks for each carbon ab-question car	uestions from juestion is 20 (ch main questi	on.		
Q1. a. Introduce	Search techn	iques in AI d	nat are Brute	Force, Greedy	,	10=20 Mari tic.	(S) CO2
	nd give examp r different wa						
Q2. a. Explain an	d Describe th	e Types of A	I in detail, giv	ing an exam		10=20 Mari type.	(5) CO4
b. Explain the functions	e functions in	PEAS descri	tion, give rea	l-world exam	iple that exp	lains these	CO3
c. Apply A* fo				e. Consider S	itart Node =	S and Goa	Node =
G, Table belov	w gives the he	euristic w.r.t g	goal node.			annan ann a shì na bhinn ann airinn a	
	S	A	8	C	D	G	
	6	7	8	4	6	0	



S G G

CO4

Q3. (2X10=20 Marks)	}
a. Discuss Turing Test and give two real-world applications.	CO ₂
b. Explain big data using the 5 V's AND Outline the big data architecture with Hadoop.	CO4
c. Explain what Data Science means AND describe the role of Data Scientist.	CO ₅



End Term (Even) Semester Examination May-June 2025

Q+	al - Callo	wing with	Lexamp	le for each	term: (i) (Correlation	(2X1) , (ii) Rando	0=20 Mari om variab	le, (iii)
a. Delin	the long	Wing on	T. C. L. Kongaraja						COS
0 130776	casing rea	l-world e rt. iusuff	Big data	and come	,,,,,,	iews for e- cs. Also, er			4 4 1
Amazos	Of the						- Mintellarit	on Funct	on and
c. Illusti Probabi	ate the pr lity densit	operties o y Functio	Probabil	ity mass fi vo exampl	unction. Co es for each	ummulative of these st	atistical fu	nctions.	C02
							(7X	10=20 Ma	rks) most 3 tails) CO3
Q5.	ir coin is t	ossed 10 t	imes, comp	nute showin	g steps Pro	pap, auces	ER MATERIA		CO3
And	I, state Bay	es Theore	m (a) Beniou	li Random	variable. (t	o) Outlier (o	c) A star her	mstic, (a)	CO4
Problem	solving	lowing d	ata points	depicting	weight = P	V and lengt	h = L for S	almon ob	tain linear CO3
Dogres	sion mod	el of Lin	terms of V	N.				25	
I Comit to	314317								
regio.		10	112	16	18	19	21 42	51	