-	UNITED		END TERM EXAM	END TERM EXAMINATION		OUD SEM 2024-25 ROLL							
1							NO.	2 320					
T	IME	3 HRS.	-	COURSE (BRAN	ICH) D. A. IDA	1							
H			SUBJE	CT-Data Scien	ce	SUE	JECT CODE	E-CAUIRCIGI					
I.	1.	Town	SECTIO	N-A (ATTEM	PT ALL QUES	TIONS)							
1	100												
T	16	Wiltes	the difference between	ock if a succit	and machin	e learning							
	Process.	Write a Python function to check if a number is east or odd. C List two common visualization tools used in data science. D Name three types of machine learning and provide an example for each. E What are the key differences between data science.											
	-												
	E	The state of the s											
	F												
	G	Distinguish between structured and postment											
1	H	A CHILD	rear-me applications of	of data eciamon									
	1	Explain	-		-								
-	1	Explain the use of the pandas library in data science. What is EDA, and why is it crucial?											
-		T	SECTION -	B (ATTEMPT)	ANY FIVE QUI	ESTIONS)		E III					
2	A	Create a small pandas DataFrame and write a code snippet to calculate the mean of a column.											
	В	and the process of hericaing missing data with an example.											
	C	Describe the differences between Matplotlib and Seaborn with examples of use cases											
100	D	Explain supervised and unsupervised learning with examples.											
	E	Compare and contrast reinforcement learning with supervised learning.											
	F	Write a I	Python code snippet to	filter even no	umbers from	a list using I	ist compre	hension.					
			SECTION -C (ATTEN	MPT ANY ONE	PART FROM	EACH QUEST	TION						
3	A	index.	thon code to clean a d				values and	resetting the					
	В		e on the data science l				The state of	The state of the s					
4	A	Create a	Python script to load	csv file, perf	form basic st	atistics, and	plot a hist	ogram.					
	В	Discuss the significance of CRISP-DM and its six phases.											
5	-A	Write a Python script to plot a scatter plot and a bar chart using Matplotlib.											
	В	Discuss the importance of EDA with an example using pandas and Matplotlib.											
6	A	The state of the s	thon code to impleme										
100	В	Discuss the challenges of overfitting and underlitting in machine learning with strategies to											
		overcome them.											
7	A	Explain the end-to-end process of building a machine learning model, from data preprocessing to evaluation.											
	В	Explain the concept of train-test splitting in machine learning. Write Python code to split a											
		dataset in	nto training and testin	g sets.									
-	840	RKS DISTR		CO1-24	CO2-10	CO3-36	CO4-52	CO5-34					
UU.	MA	S TAYON	MY DISTRIBUTION	K1-06	12-40	K3-54	K4-46	K5-10					
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	THIS.			SUBJECT CODE.	NE.	MM.	
		PROGRAMM	ING	SUBJECT CODE- CAUCBC301T			
	81	ECTION -A (ATTEMP		M = (m)	20	C	TH
		- Contrait	ALL QUESTI	ONS)	200	0	M T
	-	NA.					N.
A	What		40				
B	What is diffi	erence between POP and	OOP?		2	COI	
C	Actual Contract of the Contrac	DE EDINORATION OF THE PARTY OF	Marie Construction of the	de.	2	COI	
D		THE RESIDENCE OF THE PARTY OF T			2	COS	K
E	Trinat is dilli	erence between Concreas		classes?	2	COS	K
F	The second second is	DOUGS OF SHADSTERCTION /	THE RESERVE OF THE PARTY OF THE		2	COI	K
G	Section Collins	YINGCXL/UULHKounds Fv.	commence and the same	example.	2	COS	K
H	THE PERSON NAMED IN COLUMN	out Planager, Explain by	riefly.		2	CO4	K
H	Deine JDBe	C-ODBC briefly.			2	CO5	K
j	Briefly expla	illi Vector.			2	COL	K
-	SEC.	erence between Multithre	eading and Mult	itasking.	2	C04	K
A	What is style	TION -B (ATTEMPT A!	NY FIVE QUES	TIONS)	30	COL	
	keyboard an Tripathi" Output- "R.	id to print it in the follow	ing manner-Inp	ut- "Ram Kumar	6		K2
В		ut copy constructor. Wri	te a java progra	m to implement	6	COZ	K2
C	inheritance.	id inheritance. Write a ja			6	COI	KI
D		ut Number format Excep			6	CO3	K2
E	Explain the Life cycle of a thread. Write a thread program to print alphabets along with its ascii values.						K2
F		6	CO4	K2			
S		ATTEMPT ANY ONE P			50		
A	square matr	of array. Write a java p ix(4X4) by the user and t	o find the deterr	ninant value of the	10	COI	KI
В	Explain driv	ers of JDBC. Write a jdh e table named as student	e program to in Marks	sert the following	10	COS	K2
	Roll no						
	UU_10 Ravi BCA 30						
	UU_20	Amit BCA_IBM	60 70				
	UU_30	Dev MCA	80				
	UU 40	Shiv Diploma ife cycle of an Applet in o		iva program to draw	10	C04	K2

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		COURSE (BRANCH)	BCA & BCA (BM)				SEME
TIM	E:3 HRS.	SUBJECT-COMPUTER NET	TWORK	SUBJECT CODE- C	AUCBC3171		NAN
		SECTION -A (ATTEM	PT ALL QUESTIONS)			20	co
1	A List the	ce common data representation me	thods used in com	puter networks		2	COI
1	B What is	the purpose of a router in a netwo	rk?		-	2	CO1
L	What is	a twisted pair cable, and where is	it commonly next			7	(0)
L	What is	the difference between data and si	gnal in communica	ation systems?	7	2	CO2
-		e the two main types of errors in d		17	1	2	CO3
-		e how CSMA/CD works in Ethern			-	2 (03
F		the primary purpose of an IP address between subnetting and supernetti			4	2 (04
1		es HTTP stand for, and which app		1000	R	2 0	04
ī		you meas by WWW?	ocation uses it?		1		05
		SECTION -B (ATTEMPT A	NY FIVE QUESTIONS		31	CC	05
A	What is	the OSI model? Name its seven lay			17 30		
В	Define li	ne coding Give an example of a lin	ne coding scheme.	No. of Contract of	6	co	
C	What typ	e of cabling is commonly used in I	Ethernet networks?		6	co	
D		between flow control and error con			6	CO	4
E		s CIDR stand for, and how does it			- 6	CO	
F	What is the	ne main purpose of the File Transfe			6	CO3	
		SECTION -C (ATTEMPT ANY ONE PA			50		
^	difference	the OSi model and TCP/IP protoco s.	suite Faghingat t	heir simularities and	10	CO1	1
В		ne network criteria of performance, luence network design?	reliability, and sec	curity. How do thes	c 10	CO1	
A		e advantages and disadvantages of				CO2	
-	- word t	working of a packet-switched net o a circuit-switched network?				COZ	
Y	Explain ho	w checksum works for error detect				CO3	
	Discuss the	working of Go-Back-N ARQ in n	loisy channels. How	v does it ensure reli	010100	CO3	

	В	Analyze the limitations of Dis	tance Voctor	Routing Pl	docois, no.	- Carrier			-
		infinity predicts, and explain not spin not the TCD. Why is this process critical for						10	C
7	A	ensuring a reliable connection in computer networks B. What is DNS? Explain the process by which the Doar in Name System (DNS) translates						10	0
	В	What is DNS? Explain the pro a domain name in o its corres	ocess by who sponding IP:	address	in Name 5	y savering to			
C	ON	ARKS DISTRIBUTION	CO1-36	CO2-30	CO3-30	CO4-30	CO5-30		
10.		TAXONOMY DETRIBUTION	K1-37	K2-48	K3-24	K4-26	K5-26		-