Subject Name: Intro.to Data Science
Subject Code: UDS21201J
Time: 1Hr 30 min

Course: BCA(Data Science
Sem/Year: 2ndSem/I Yea
Max. Marks: 30

PART - A (Marks: 1*10=10) *Attempt all questions*

		Marks	BL	CO	PO
1	What is Data Science?	1	1	2	1
2	What is Data Engineering?	1	2	1	3
3	Define the term "Data Pipeline".	1	1	2	2
4	What is "String" in python?	1	1	2	3
5	What is For loop in python?	1	2	1	3
6	Define the term "Class" in python.	1	5	4	3
7	Explain the type of "Data analysis".	1	2	2	3
8	Illustrate the "If-Else" statement in python.	1	5	3	4
9	Explain the Characteristics of python.	1	3	4	1
10	What is "Set" in python?	1	5	3	4

PART - B (Marks: 5*4=20) *Attempt any four questions*

		Marks	BL	CO	PO
1	What is List and Tuple in Python? Explain	5	3	3	2
2	Explain Data science methodology in detail.	5	2	4	3
3	Differentiate between Data Science and Business intelligence?	5	4	6	2
4	What is "Dictionary" in Python? Explain with example.	5	2	4	5
5	What is Numpy? How you can create 2D array using it?	5	3	1	4

SRM Institute of Science and Technology
NCR Campus, Modinagar

Department of Computer Application
CT-1, February-2022

Subject Name: Advanced Computing with Distributed Data Processing
Subject Code: UDS21202J   **Sem/Year: 2nd Sem/1st Year**
Time: 1Hr 30 min   **Max. Marks: 30**

PART - A (Marks: 1*10=10) *Attempt all questions*

		Marks	BL	CO	PO
1	What is Cloud Computing?	1	1	2	1
2	CISC stands for? Complex Instruction Set Computer	1	2	1	3
3	Which of the following is a type of cloud computing service?	1	1	2	2
4	Which architectural layer is used as a backend in cloud computing?	1	1	2	3
5	Write a short note on : AWS,EC2,CLOUD,PAN,VPN.	1	2	1	3
6	When should you use the classic load balancer and the application load balancer?	1	5	4	3
7	Applications and services that run on a distributed network using virtualized resources is known as _____	1	2	2	3
8	What are the two basic type of network architecture that you know?	1	5	3	4
9	~~Which~~ What of the following is ~~not~~ a type of cloud server?	1	3	4	1
10	EPIC stands for? Explicity Parallel Instruction computing	1	5	3	4

PART - B (Marks: 5*4=20) *Attempt any four questions*

		Marks	BL	CO	PO
1	Difference between Cloud, Cluster and Grid Computing.	5	3	3	2
2	Write the usage and Architecture of High Performance?	5	2	4	3
3	Explain Grid computing	5	4	6	2
4	Define Internet Computing. With suitable diagram.	5	2	4	5
5	What are cloud services? Explain all types of services.	5	3	1	4

Subject Name: Introduction to Machine Learning   Course: BCA-DS
Subject Code : UCS21S02T   Sem/Year: 2nd / 1st
Time: 1Hr 30 min   Max. Marks: 30

Answer ALL Questions
PART - A (1 X 10 = 10 Marks)

		Marks	BL	CO	PO
1.	Define machine learning.	1	1	2	1
2.	Write different types of machine learning.	1	2	1	3
3.	Write down the various applications of supervised machine learning.	1	1	2	2
4.	Write down various disadvantages of unsupervised machine learning.	1	1	2	3
5.	Write down various features of machine learning.	1	2	1	3
6.	Write down various uses of ML in healthcare system.	1	5	4	3
7.	Write down various steps of data engineering.	1	2	2	3
8.	What is feature engineering.	1	5	3	4
9.	Draw diagrams to represent overfitting and under fitting test cases.	1	3		
10.	Which of the following is/are classification problem(s)? a) Predicting the gender of a person by his/her handwriting style , b)Predicting house price based on area, c) Predicting whether monsoon will be normal next year, d)Predict the number of copies a music album will be sold next month.	1	5	3	4

Answer Any FOUR Questions
PART - B (5 X 4 = 20 Marks)

		Marks	BL	CO	PO
11.	What is cognitive technology? Describe the various areas where it is used.	5	3	3	2
12.	Write down the steps of designing a machine learning system.	5	2	4	3
13.	What is AI? Explain its uses in energy system.	5	4	6	2
14.	What is machine learning. Describe its architecture.	5	2	4	5
15.	Explain the role of AI in inventory stock analysis.	5	3	1	4

d) du sport

1

Subject Name: FRENCH II
Subject Code: ULF20GOJ
Time: 1Hr 30 min

Course: BCA
Sem/Year: 2nd Sem/ Ist Year
Max. Marks: 30

PART - A (Marks: 1*10=10) *Attempt all questions*

		Marks	BL	CO	PO
1	La lettre E est la _____ de l'alphabet . a)deuxième b) sixième c)cinquième d) septième	1	1	2	1
2	Il fait froid et il gèle.. Nous sommes _____ a) en hiver b) en été c) au printemps d) en automne	1	2	1	3
3	Le matin, nous _____ à 7 heures. a)me réveille b) nous réveillons c) te réveilles d) vous réveillez	1	1	2	2
4	Il est huit heures quarante- cinq. a)8:15 b) 8:20 c) 8:35 d) 8: 45	1	1	2	3
5	.L'équipe française se classe (2e) au tournoi de judo. a) cinquième b) septieme c) huitieme d) deuxième	1	2	1	3
6	Ma mère aime bien la télé. Elle ___ regarde souvent. a)le b) la c) l' d) les	1	5	4	3
7	Nous achetons. Elles _____ a)achetez b) achètes c) achète d)achètent	1	2	2	3
8	Elles le regardent. a) Le film b) la télé c) les documentaires d) l'affiche	1	5	3	4
9	Sophia aime faire _____:s'occuper des plantes et des fleurs la détend. a)du Jardinage b) du lèche - vitrine c) des randonnées d) du sport	1	3	4	1
	10. Vous avez une passion pour les nombres. a) Mathématiques b) science de la vie c) littérature d) philosophie	1	5	3	4

	Marks	BL	CO	PO

PART - B (Marks: 5*4=20) *Attempt any four questions*

Q1, Complétez avec les pronoms compléments d'objets direct:

	5	3	3	2

1. La petite fille aime la glace..
2. Il adore les chocolats.
3. Vous faites les devoirs?
4. Elle prépare le poulet au four.
5. Tu invites tes amis.

Q2.Complétez avec les adjectifs interrogatifs (Quel,Quelle,Quels, Quelles)

	5	2	4	3

1. Vous êtes libre _____ jours?.
2. À _____ heure est ce que tu arrives?
3. Vous aimez _____ voiture?
4. Nous prenons _____ bus?
5. Tu invites _____ amis?

Q3) Remplissez les tirets avec « oui, non, si:

	5	4	6	2

1. Jean a un stylo? _____ Il a un stylo.
2. Tu n'es pas fatigué ? _____ Je suis fatigué.
3. Vous aimez les légumes? _____Je n'aime pas les légumes.
4. Ludovic n'a pas un chat? _____ Il a un cha.
5. Il prend le pain pour le petit déjeuner? _____ Il le prend.

Q 4) Écrivez un paragraphe au choix en dix phrases.

	5	2	4	5

a) Vos loisirs **ou** b) Votre vie quotidienne

.Q5.Conjuguez les verbes :

	5	3	1	4

a)Jeter b) Acheter c) prendre d) Comprendre e) Se lever

SRM Institute of Science and Technology
NCR Campus, Modinagar
Department of Computer Application
CT-1, February-2022

Subject Name: Role of Statistics in AI
Subject Code: UDS21G02T
Time: 1Hr 30 min

Course : BCA Data Science
Sem/Year: 2th Sem/1st Year
Max. Marks: 30

PART - A (Marks: 1*10=10) *Attempt all questions*

		Marks	BL	CO	PO
1	What do you mean by the descriptive and inferential statistics?	1	1	2	1
2	What are kind of measure of central tendencies?	1	2	1	3
3	A Student's marks in 6 subjects are 15, 25, 35, 45, 55, and 65. Find his average mark using deviation method.	1	5	2	2
4	Determine median following data: 8, 10, 18, 20, 25, 27, 30, 42, and 53.	1	5	2	3
5	Find the mode. 2, 8, 5, 12, 5, 7, 1, 10, 5, 6.	1	5	1	'
6	What do you mean by the measure of dispersion?	1	2	4	3
7	Calculate mean deviation from mean for the following data, 100, 150, 200, 250, 360, 490, 500, 600, 671	1	5	2	3
8	What is linear correlation?	1	1	3	4
9	Explain pie chart?	1	1	4	1
10	What is linear regression?	1	1	3	4

PART - B (Marks: 5*4=20) *Attempt any four questions*

		Marks	BL	CO	PO
1	Find the median for the following data:	5	5	3	2

CI:	1-3	3-5	5-7	7-9
Frequency:	20	42	30	8

2 Find the mode for the following data:

CI:	30-35	35-40	40-45	45-50	50-55	55-60
Frequency:	3	8	12	20	15	2

(Marks 5, BL 5, CO 4, PO 3)

3 Find standard deviation of the following data:

CI:	0-20	20-40	40-60	60-80
Frequency:	4	12	20	24

(Marks 5, BL 5, CO 6, PO 2)

4 Calculate the coefficient of correlation between x and y:

x	5	10	4	3	2	7	1
y	4	12	1	4	6	5	2

(Marks 5, BL 5, CO 4, PO 5)

5 Calculate the regression equation of y on x from the following data:

x	10	12	13	17	18
y	5	6	7	9	13

(Marks 5, BL 5, CO 1, PO 4)

Also estimate y when x=14.