

SRM Institute of Science and Technology
Department of Computer Application

Delhi – Meerut Road, Sikri Kalan, Ghaziabad, Uttar Pradesh – 201204



Academic Year: 2023-24 (ODD) SET – A

Test

: Internal Examination I

Date & Session : 01. 09. 23 & I

Course Code & Title : UDS23103T & Role of Mathematics in AI

Duration: 1 Hour 30 Mins

Year & Sem : I & I

Max. Marks: 50

Part - A

Answer all questions

Q. No

Question

(9Q x 2M = 18 Marks)

Marks	BL	CO	PO
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1 Define Scalar Matrix.

2 2 3 4

2 Define Characteristic equation of a matrix.

2 2 3 4

3 Define lower triangular matrix.

2 2 3 4

4 The eigen values of matrix $A = \begin{bmatrix} 1 & 0 & 3 \\ 0 & -1 & 2 \\ 2 & 0 & 0 \end{bmatrix}$ are -1, -2, 3. Find the eigen values of A^3 and A^{-1} .

2 2 3 4

5 Find the eigen values of matrix $\begin{bmatrix} 2 & 0 \\ -1 & 1 \end{bmatrix}$.

2 2 3 4

6 State Cayley Hamilton theorem.

2 2 3 4

7 The product of two eigen values of $A = \begin{bmatrix} 1 & 0 & 0 \\ 2 & -1 & 2 \\ 2 & 3 & 0 \end{bmatrix}$ is -3. Find the third eigen value.

2 2 3 4

8 Find the least positive value of k for which the equation $x^2 + kx + 4 = 0$ has real roots.

2 2 3 4

9 Find the second order derivatives of the functions $x^3 \log x$.

2 2 3 4

Part B

Answer all questions

2Q x 16M = 32 Marks

10.

(A) Find eigen values and eigen vectors of $A = \begin{bmatrix} 3 & 2 & -2 \\ 1 & 2 & -1 \\ -1 & 2 & 1 \end{bmatrix}$.
 (OR)

16 2 3 4

(B) Give importance of Mathematics in AI.

16 2 3 4

11.

(A) Verify Cayley Hamilton theorem for $A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$ and hence find A^{-1} .
 (OR)

16 2 3 4

(B) Differentiate with respect to x , $\sqrt{\frac{3x+5}{6+9x}}$.

16 2 3 4

Academic Year: 2023-24 (ODD) SET – B

Test : Internal Examination I

Date & Session : 01/09/23 & 2023-24

Duration: 1 Hour 30 Mins

Course Code & Title : UDS23101J & Programming using Java

Max. Marks: 50

Year & Sem : I year / I.Sem

Part - A

Answer all questions

(9Q x 2M = 18 Marks)

Q. No Question

Marks BL CO PO

1 Define the concept of Java? What is the importance of Java?

2 2 3 1

2 What is the difference between primitive and non-primitive
data types?

2 1 2 3

3 Explain the background of Java?

2 1 1 2

4 How and why we use keyword and literals in our Java program.
Explain with an example?

2 3 2 2

5 Explain the Concept of class and object in Java?

2 2 1 3

6 What is the difference between Java and C language?

2 1 1 2

7 Explain Encapsulation in Java?

2 3 1 1

8 What are variables and How to create variable?

2 2 3 1

9 What are control statement in Java. Explain?

2 2 1 1

Part B

Answer all questions

2Q x 16M = 32 Marks

(A) Define all the steps involved in the first Program of Java.
explain each keyword?

(OR)

(B) Explain the concept of Constructor and destructor in Java
with the appropriate example.

16 2 3 2

12. (A) Explain different types of Operators in Java with the
appropriate example.

16 2 3 1

OR

(B) Explain how to swap two numbers in Java entered by the
user and explain the program.

16 3 4 2

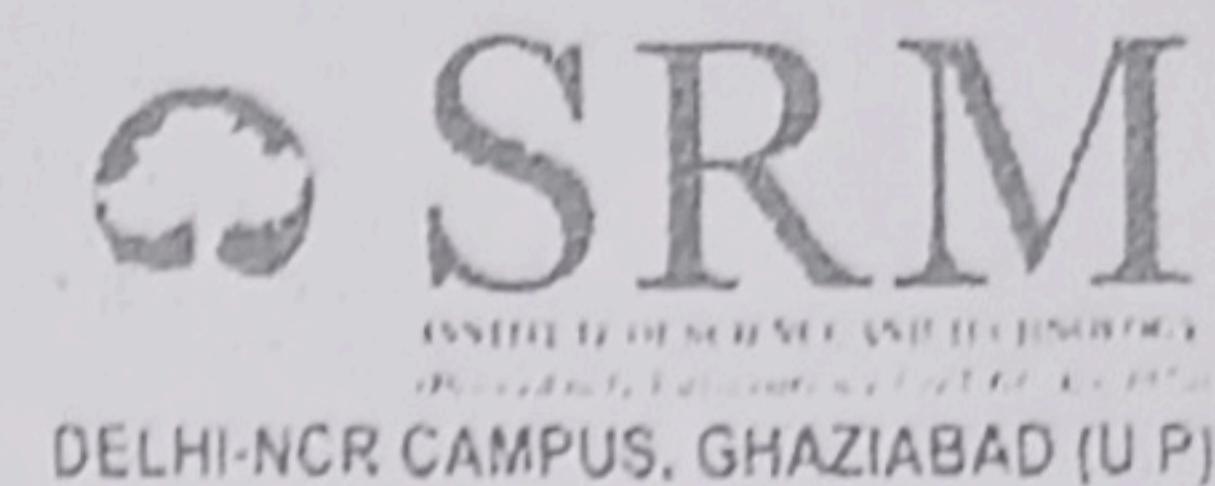
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Academic Year: 2023-24 (ODD) SET – B

Test	: Internal Examination I	Date & Session : 04/09/2023 (FN)
Course Code & Title	: Fundamental of Data Science (UDS23102J)	Duration: 1 Hour 30 Mins
Year & Sem	: III year & V Sem	Max. Marks: 50

Part – A

Answer all questions		(9Q x 2M = 18 Marks)			
Q. No	Question	Marks	BL	CO	PO
1	Explain the role of Data Engineer?	2	1	1	1
2	What is Machine learning?	2	1	2	2
3	What are “Quality and Completeness Facets” in data science?	2	1	3	1
4	What is Data visualization?	2	2	3	3
5	What is “Descriptive statistics”?	2	1	2	2
6	Explain the term “Predictive modeling”?	2	1	1	2
7	What is “Correlation”?	2	2	1	1
8	What is Data Modelling?	2	2	2	2
9	What is “Business Understanding”?	2	1	3	1

Part B

Answer all questions		2Q x 16M = 32 Marks			
11.	(A) What is Data Warehouse? Describe its need in detail.	16	2	1	1
(OR)					
	(B) Explain the “Data Science Methodology” in detail.	16	1	2	1
(OR)					
12.	(A) Explain about “Data preparation” and “Exploratory Data Analysis (EDA)”.	16	2	3	2
(OR)					
	(B) What is “Statistical Inference”? Explain the two terms “Population” and “Sample” along with its steps of statistical inference.	16	1	2	2

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Academic Year: 2023-24 (ODD) SET – B

Test	: Internal Examination I	Date & Session : 31:08:2023/AN
Course Code & Title	: ULE23AE2T / Business English	Duration: 1 Hour 30 Mins
Year & Sem	: I / I	Max. Marks: 50

Part - A

Answer all questions

(9Q x 2M = 18 Marks)

Q. No	Question	Marks	BL	CO	PO
1	What is the difference between listening and hearing?	2	1	1	1
2	What is time spent communicating?	2	1	1	1
3	What is the purpose of listening?	2	1	1	2
4	What tele-conversation?	2	1	1	1
5	What is self-introduction?	2	1	2	1
6	What is the process of listening?	2	1	1	1
7	What do you mean by stakeholders in business?	2	1	1	1
8	What are barriers in effective listening?	2	1	2	1
9	What is verbal communication?	2	1	1	2

Part B

Answer all questions

2Q x 16M = 32 Marks

11.	(A) What are the Components of Listening? Elaborate in detail.	16	2	2	1
(OR)					
	(B) What is Communication? Explain in detail.	16	2	2	1
12.	Internal and external communication play a vital role to elaborate the business. Explain with suitable examples.	16	2	1	2
(OR)					
	(B) What is reading? Elaborate with types and suitable examples.	16	2	2	1

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Academic Year: 2023-24 (ODD) SET – A

Test : Internal Examination I
Course Code & Title : ULF23G01J/FRENCH
Year & Sem : 1st YEAR 1st SEM

Session : 2023-24
Duration: 1 Hour 30Mins
Max. Marks: 50

Part – A

Answer all questions

Q. No	Question	(9Q x 2M = 18 Marks)			
		Marks	BL	CO	PO
1	Transformez au féminin a) Un voisin charmant b) Un journaliste mexicain	2	2	2	3
2	Complétez Avec les articles définis a) _____ drapeau français est bleu, blanc, rouge.(les/le) b) _____ père de Simon est sympathique(.la/le)	2	2	3	3
3	Complétez avec les pronoms sujets a) _____ appelons Martine. (vous/nous) b) _____ êtes très sympas. (elle/vous)	2	2	2	3
4	Complétez Avec les articles indéfinis Dans ma trousse, j'ai _____ stylo.(une/un) Ils ont _____ livres.(des/un)	2	2	2	3
5	Complétez avec les noms des jours ou des mois a) Le premier mois de l'année est _____ (décembre/Janvier) b) Le quatrième jour de la semaine est _____ (jeudi/ samedi)	2	2	2	3
6	Retrouvez le bon ordre des phrases : a) Habite/ à / j'/ Paris b) Sommes / nous / sportifs	2	2	2	3
7	Choisissez les bonnes réponses a) <<15>> en français, C'est _____ (Cinquante - cinq/ quinze) b) <<31>> en français, C'est _____ (trente-et-un/ vingt-et-un)	2	2	2	3
8	Complétez avec les nationalités : a) Il habite en Chine. Il est _____ b) Elle habite en France. Elle est _____	2	2	2	3
9	Répondez aux questions a) Comment on dit <<Good morning>> en français ? b) Comment on dit <<How are you >> en français?	2	2	3	3

Part B

Answer all questions

Q4 x 8 M = 32 Marks

10.	(A) Complétez avec les adjectifs possessifs a) Vous avez _____ passeport.(vos/votre) b) Je ne trouve pas _____ trousse.(ma/mes) c) Nous n'avons pas _____ cahiers.(notre/ nos) d) Monsieur, Vous avez _____ papiers? (mes/vos)	4	2	3	3
	(B) Transformez au féminin a) Il est comédienne b) Il est petit. c) un ami américain. d) Un artiste chinois	4	2	3	3

11

(A) Transformez les phrases à la interrogatif avec <<Est ce que>.

4 2 3 3

- a) Vous habitez à Paris.
- b) Elle mange du pain.
- c) Tu aimes les mathématiques
- d) Elles écoutent la radio.

4 2 3 3

(B) Trouvez les questions

- a) C'est Sachin. qui est ce?
- b) C'est une tortue. qu'est ce que c'est?
- c) Ce sont des livres. ..
- d) Ce sont des voitures. ..

8 2 3 3

12. Conjuguez les verbes-

- a) avoir ✓
- b) être ✓
- c) aimer ✓
- d) écouter ✓

8 2 3 3

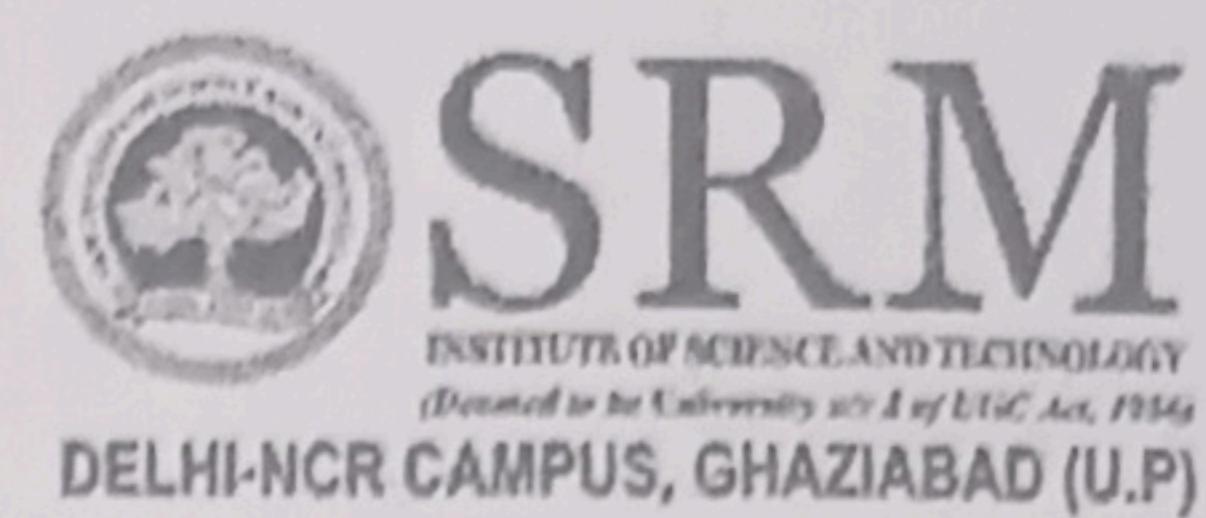
13 (A) Présentez- vous (Present- yourself)

OR

B) Conjuguez les verbes au présent :

- a) Nous _____ la télé (Regardons/ regarde)
- b) Ils _____ de la musique. (Écoutons / écoutent)
- c) Je _____ Indien. (Suis / êtes)
- d) Je _____ le musée. (Visite/visitons)
- e) Tu _____ belle. (Sont / es)
- f) Vous _____ du gâteau. (Mangez / mange)
- g) John _____ à Delhi. (Habite / habitons)
- h) Vous _____ à l'aéroport. (arrivés/ arrivez)

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Academic Year: 2023-24 (ODD) SET – B

Test : Internal Examination I
 Course Code & Title : UC023V01T/ Universal Human Values
 Year & Sem : I Yr/ I Sem

Date & Session :
 Duration: 1 Hour 30 Mins
 Max. Marks: 50

Part - A

Answer all questions (9Q x 2M = 18 Marks)

Q. No	Question	Marks	BL	CO	PO
1	Define the term Universal Human Values	2	1	1	1
2	Explain Philautia with example. <i>I love in greek</i>	2	1	1	1
3	Differentiate between empathy and compassion?	2	1	1	1
4	How love and compassion are interrelated?	2	2	2	1
5	What is the importance of human values in personal and professional life?	2	1	1	1
6	List down the 8 ancient Greek forms of love, <i>Friendship, Kindness, Love, etc.</i>	2	1	1	1
7	Why should we practice non-violence?	2	1	1	1
8	How to overcome the presumptuous or prejudiced mentality?	2	1	1	1
9	What are the components of Love? <i>Love, sympathy, etc.</i>	2	1	1	1

IPart B

Answer all questions

2Q x 16M = 32 Marks

11.	(A) What do Universal human values mean? Explain any 5 values stating their importance. (OR) (B) What is the need and importance of inculcating the syllabus of Universal Human Values in professional courses	16	1	1	1
12.	(A) Define the concept of love and its forms (Ancient Greek) in detail. (OR) (B) What is truth and what will we gain by practicing the concept of truth?	16	2	2	1
		16	2	2	1