## SRM Institute of Science and Technology

Department of Computer Application

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



Academic Year: 2022-23 (ODD)

SET - B

Test: Internal Examination III Course Code & Title: UDS23103T & Role of Mathematics in AI Date& Session: 27/10/2023 & FN Duration:3Hours Max. Marks: 100

Year & Sem: I Year / I Sem

Part - A (100x 2M = 20 Marks)

Answ	er all questions $(10Qx 2M = 20$	Marks)			
Q. N		Marks	BL	CO	PO
1	Define Orthogonal matrix with example.	2	L1	1	1
2	Explain Cramer's rule.	2	L1	1	1
3	Integrate $\int e^{(8-7x)} dx$ .	2	L2	2	2
4	Find the critical points of the function, $f(x) = -\frac{3}{4}x^4 - 8x^3 - \frac{45}{2}x^2 + 105$ .	2	L2	2	2
5	Define conjunction and disjunction.	2	L1	3	1
6	Construct truth table of $\sim p \land (P \rightarrow Q)$ .	2	L1	3	1
7	Define Complete graph with example.	2	L1	4	1
8	Define Hamiltonian graph with example.	2	L1	4	1
9	Define minimum spanning tree with example.	2	L1	5	1
10	Find the length of the path from $v_1$ to $v_2$ in the minimum spanning tree of graph with $n = 10$ .	2	L1	5	1

#### Part B

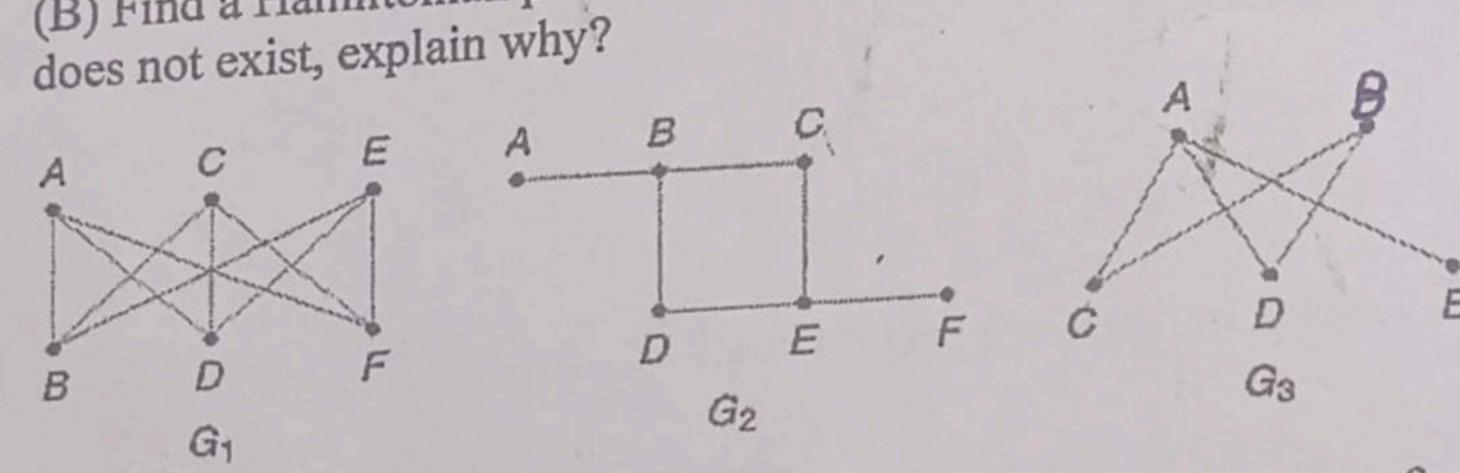
	Part B				
	Answer all questions	5Qx	16M =8	80 Mar	ks
11.	<ul> <li>(A) (i) Define the following matrix with example.</li> <li>1. Skew-symmetric matrix, 2. Hermitian matrix</li> <li>3. Unitary matrix, 4. Diagonal matrix</li> <li>(ii) Find the eigen values and eigen vector for A, where,</li> <li>A=</li></ul>	16	L2		1
	(OR)				
	(B) (i) State and verify Cayley-Hamilton theorem for $A = \begin{pmatrix} 1 & 0 & 3 \\ 2 & 1 & -1 \\ 1 & -1 & 1 \end{pmatrix}$ . (ii) Solve the system of equation by using Cramer's rule $2x + y - z = 3$ ; $x + y + z = 1$ ; $x - 2y - 3z = 4$ .	16	L2	1	2
10	(A) (i) Find the maximum and the minimum values of $f(x) - x^3 - 3x$	16	Ι2	2	2
12.	(A) (i) Find the maximum and the minimum values of $f(x) = x^3 - 3x$ . (ii) Prove that $\frac{d}{dx} \left( \sqrt{\frac{1+\sin x}{1-\sin x}} \right) = \frac{1}{1-\sin x}$ .		LZ		4
	(OR)				
	(B) Integrate (i) $\int \frac{x^2 + x + 1}{(x+2)(x^2+1)} dx$ .	16	L2	'2	2

- (A) (i) Define Tautology and determine whether the following statements are tautology or not.

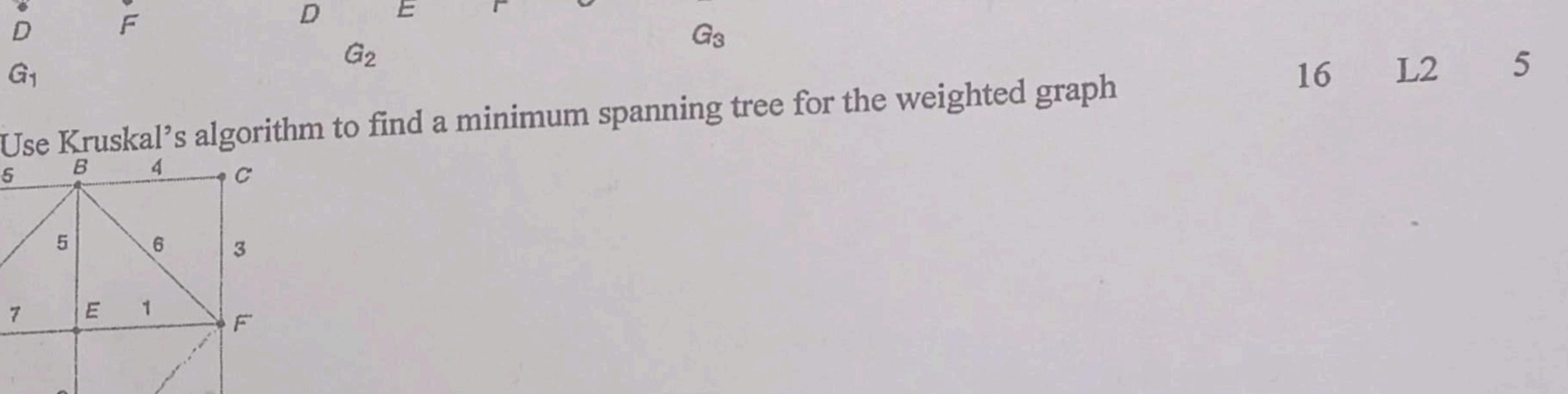
- (a)  $\sim (p \land q) \lor p$  (b)  $p \land \sim q) \lor (p \lor q)$ 13.
- (ii) Define principal disjunctive normal forms and without constructing the truth tables, find the principal disjunctive normal forms of the following statements: (b)  $(X \wedge Y) \vee (\sim X \wedge Z)$ 
  - (a)  $X \rightarrow ((X \rightarrow Y) \land \sim (\sim Y \lor \sim X))$
- (OR)

- (B) Construct the truth table for following 16
- (A) (i) Define Isomorphism graph and determine whether the graphs G and H are isomorphic. 14.
  - (ii) Prove the following implications by using truth tables:

  - (a)  $p \to (p \to r) \Rightarrow (p \to q) \to (p \to r)$ (b)  $(p \to (q \to s)) \land (\sim r \lor p) \land q \Rightarrow r \to s$
- (OR)
- (B) Find a Hamiltonian path or a Hamiltonian circuit, if it exists in each of the three graphs. If it 16

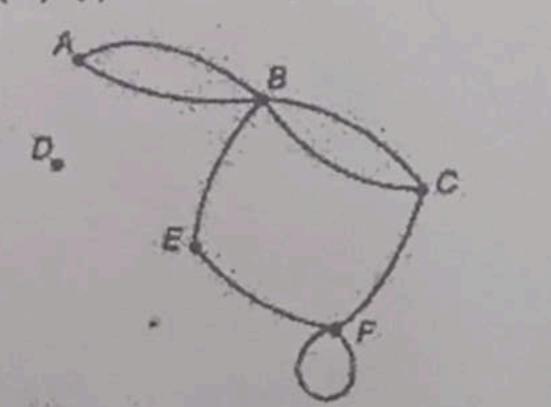


(A) (i) Use Kruskal's algorithm to find a minimum spanning tree for the weighted graph



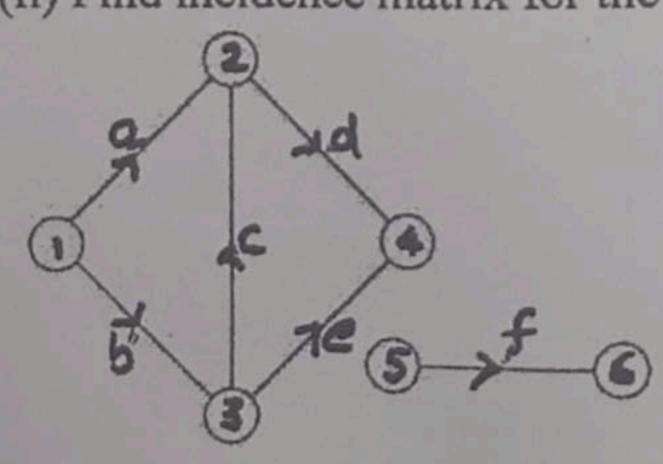
(OR)

(B) (i) Find Adjacency matrix for the graph



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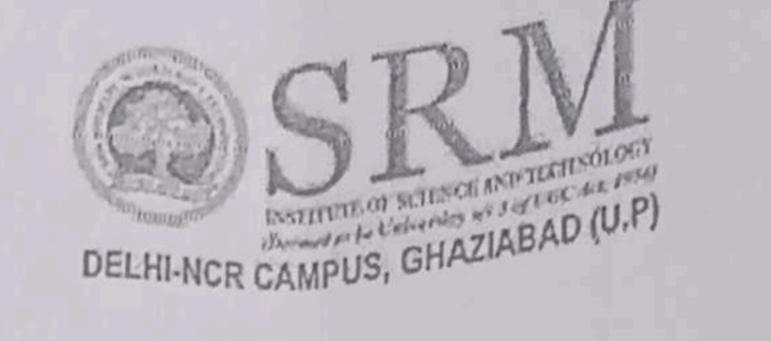
(ii) Find incidence matrix for the graph



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# SRM Institute of Science and Technology

## Department of Computer Application



Delhi – Mecrut Road, SikriKalan, Ghaziabad, Uttar Pradesh – 201204

Academic Year: 2023-24 (ODD) SET – B

Test

	se Code & Title : UDS23101J/Programming using JAVA Duration:  See Code & Title : UDS23101J/Programming using JAVA Duration:  Max. Mar	3 Hours	/10/23	&FN	
Q. No	Part - A				
Z. 110	$(100 \times 2M = 20 \text{ Marks})$				
1	Why Java is known for Platform neutral language?	Marks	BL	CO	PO
2	Deline multithreading? Have described	2	1	1	1
3	Define multithreading? How does it Improve the performance of Java?  Differentiate between IDK IDE	2	1	4	5
4	Differentiate between JDK, JRE and JVM.  Determining the	2	2	1	1
5	Determining the purpose of the main method in a Java program?	2	2	1	5
	Describe the concept of garbage collection in Java.	2	2	3	4
	Explain the concept of method overriding in Java, and why it is used in inheritance.	2	1	2	4
7	What is abstraction in Java, and how does it contribute to building robust software systems?	2.	1	2	5
	Distinguish between Throw & Throws keyword.	2	2	3	5
9	Name three access modifiers in Java and briefly explain their visibility scope.	2	2	2	4
10	Provide an example of an AWT control in Java and mention its purpose in graphical user interface (GUI) development.	2	2	5	5
	Part B				
	Answer all questions	5Q x 1	6M =	80 M	arks
Q. No	Question	Marks	BL	CO	PO
	(A) Describe the purpose of arrays in Java and provide examples of array declarations, initialization, and manipulation. Discuss the advantages of using arrays to store and process data. Write a Java program that employs arrays to solve a problem.	16	2	1	5
	(OR)				
	(B)(i) Discuss the primitive data and Non- primitive Data types in Java? Write about type casting in Java. (ii) Define constructor. Why it is required in programming? Explain with Program.	16	2	2	5
2. (t	A)Express the principles of inheritance and polymorphism in Java. Demonstrate types of polymorphism as Static & Dynamic polymorphism with proper executing examples.	16	1	3	5
	(OR)			1	-

-	ani	
(	OK)	
1		

Disc (18)(i) Differentiate between the concept of Data Hiding and Data Encapsulation. vid (ii) Differentiate between Abstract class and Data Abstraction. (A)Describe the Java exception handling mechanism. Explain checked and 13. unchecked exceptions, and demonstrate how to create custom exceptions. Provide a code example that includes try-catch blocks and throws clauses. (OR) (B) Explain the concept of interfaces in Java. Describe how interfaces differ from classes and abstract classes, and discuss the benefits of using interfaces. Create a Java program with multiple interfaces, classes, and their implementations to illustrate the concept of interfaces. (A)Differentiate Between Final, Finally {} and Finalize () in java. Provide use case with proper executing examples. (OR) (B)Describe the different types of collections in Java, including Vector and Stack 16 in Legacy classes. Write a Java program that utilizes these collections for data storage and retrieval. 15. (A)Discuss the concept of multithreading in Java. Explain the difference between threads and processes, and illustrate the use of the Thread class and the Runnable interface. Provide a code example to demonstrate the synchronization of threads. (OR) (B) Explanation of essential AWT components (e.g., Frame, Button, Label, 16 TextField) and their purposes.

## 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

Date & Session: 31/10/2023 & FN : Internal Examination- III Duration: 3 Hours Course Code & Title: UDS23102J&Fundamental of Data Science Max Marks: 100 : I Year / I Sem Year & Sem Part - A (10Qx 2M = 20 Marks) Marks BL CO PO Answer all questions Question Q. No List out the applications of data science in various fields. Define the term "Machine Learning". What is regression? What is "Standard Score"? What is "String"? 5 What is an "Expression" in python? 6 Explain structural array? What is Hierarchical Indexing? 8 What is contour graph? 9 Define three-dimensional plotting. 10 Part B  $5Q \times 16M = 80 Marks$ Answer all questions 16 (A) What is Data Science? Explain its benefits and challenges. (OR) 16 (B) Explain the two terms "Data Mining" and "Data warehousing" in detail. (A) Explain the various Data science methodologies in detail. (OR) (B) What are the types of Data? What are the ways used to describe data. 16 (A) What is "List" and "Tuple"? Explain in detail with help of programs. L3 16 (OR) (B) Explain the two terms "Constructors" and "Class" in python with example. 16

14.	(A) What is Numpy? Explain "Array transposing" and "Swapping" in NumPy.	16	L2	2	2
	(OR)				
	(B) What is "Dataframe" in Pandas? How you can apply arithmetic operations in dataframe.	16	L2	4	6
15.	(A) What is Scipy? Explain about "Scipy Constants" and "Scipy Optimizers" with help of examples.	16	L1	2	3
	(OR)				
	(B) What is "Matplotlib"? How "Bar Graph" and "Pie graph" can be created using it.	16	L2	4	6

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### SRM Institute of Science and Technology Department of Computer Application Delhi - Meerut Road, Sikri Kalan, Ghaziabad, Uttar Pradesh - 201204



Academic Year: 2022-23 (Odd) SET-B

	The Table of the Control of the Cont	Session: 2 Duration: 3 ix. Marks:	Hour	2023 d	ZFIN
Part	- A	(10Q x	2IM =	20 M	arks)
Ansv	ver all questions	Marks	Control of	CO	PO
Q. No	Question	2	1	1	1
1	What is listening?		1	1	1
2	What are the types of reading?	2	1	1	
3	What are the stake holders'?	2	1	2	1
4	What are the types of communication?	2	1	2	
5	What is the purpose of notice?	2	1	3	1
-	What is MoM?	2	1	3	1
0		2	2	3	1
7	Write types of business letters?	2	2	4	1
8	Write types of report.		1	5	1
9	What is group discussion?	2			
10	What is the purpose of report writing?	2	1	4	1
	Part - B				
	Answer all questions	5Q x 1	6M =	80 M	arks
11	(A) What are the barriers of listening? Explain with the methods of overcome?	16	2.	1	2
	(OR)				
	(B) Write a cover letter for the post of Data Science Observer in High Telescope, Noida. The advertisement was given the Hope News Paper on October, 2023.	ch 16	3	5	3
2	(A) Write your Resume with proper format.	16	3	5	3
	(OR)				
	(B) Write the structure of circular with proper rules.	16	3	3	2
	(A)As the chairman of D. D. M. Technology, Raipur. Conduct a meeting wi board of directors with proper methods.	th 16	2	5	2
	(OR)				TALLS AND ST
	(B) What are the rules of email writing?	16	3	3	2
4	(A) Write an email to your HOD regarding the leave of 3 days as you are going to participate in the cultural fest in IIT Delhi on 25 November, 2023.	16	2	3	3

	(OR)				
	(B) C. C. Foundations Ltd. Ghaziabad is launching a new product face-cleaner in	16	2	4	3
15	Patna Bihar. Submit a proper report as a team of two members.  (A) What is the structure of notice? Explain with proper example.	16	3	3	2
	(OR)				
	(B) What is the role of stake-holders in a company? Elaborate in detail.	16	2	2	3

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#### SRM Institute of Science and Technology Department of Computer Application Delhi-NCR Campus, Modinagar, Ghaziabad

Academic Year: 2023-24

Test	: Internal Examination-III	Date & S	ession		25/10/2	23 &
	rse Code & Title: ULF23G01J/FRENCH. T	Duration			3 Hour	rs
Year	& Sem. : 1st Year 1st Sem.	Max. Ma	rks	:	100	
	PART-A				1	
	Toutes les questions sont obligate	oires	(80 x	5M= 4	10 Mar	ks)
Q.No	Question Question		Iarks	BL	~*Z3858000	PO
1.	Écrivez les nombres en chiffres:		5	2	3	3
	(a) quatre-vingts (b) soixante-onze (c) cinq cents				7	
	(d) trente et un (e) quatre-vingt-dix-neuf			A	390	
2.	Mettez l'article indéfini:		15	2	3	3
	(a)livre, (b)fille, (c)table, (d)écoles, (e)	cahier	A Partie of the last of the la	1		
	(f) mains (g) chat, (h) maison, (i) acteur, (j)	vélo				
3.	Mettez les phrases au négatif.		5	2	4	3
	(a) Vous êtes Italienne? (b) Vous parlez français? (c) Ile	st pilote?				
	(d) Vous allez à la piscine? (e) Est-ce qu'elle aime le chocolat	?				
4.	Completez avec l'adjectif possessif: Ce plest autoil per		5	2	2	2
	C'est (a) pere; c'est (b) mère. Nous habitons dans (c) ne	etite maiso	n			
	à Mumbai(d)ami s'appelle Paul et(e) père s'appelle Nicol	as Legran	d.			
5.	Ecrivez l'heure en français:		5	2	2	3
	(a) 00 h10 (b) 14 h52 (c) 12h00 (d) 17h59 (e	21h42				
	(f) 6h12 p.m. (g) 2h10 p.m. (h) 7h00 a.m. (i) 11h59 p.m (j	) 9h47 a.m				
6.	Complétez avec II est ou C'est:		5	- 2	2	2
	(a)midi, (b)mon ami, (c)	minuit,				
7	(d) Philippe, (e) Madame Vincent.					
1.	Mettez les pronoms sujets.		5	2	4	3
	(a)parles italien. (b)habitent à Marseille. (c)visitez	Paris?				
0	(d)aime la pizza. (e)sommes indiens.					
8.	Complétez avec les nationalités.		5	2	4	2
	(a) France, Il est, (b) Italie, Elles sont, (c) Japon	, Elle est_				
	(d) Inde, Je suis, (e) Angleterre, Vous êtes					
	PART-B					
9.	Conince 1 Toutes les questions sont obligat	oires	(6Q x	5M=3	30 Mar	ks)
9.	Conjuguez les verbes au présent :	/	5	2	2	3
10.	(a) Faire (b) Lire (c) Aller (d) s'appeler	(e) Aime	er .			
10.	Répondez en utilisent « Si, Oui, ou Non »		5	2	4	3
	(a) Vous avez le livre de français? (b) Tu n'es pas indien?					
11.	(c) Vous parlez hindi? (d) Vous êtes professeur? (e) Tu as	s un stylo :	_			
12.	Présentez votre ami(e)en cinq lignes.		5	2	3	3
13.	Écrivez cinq noms d'animaux domestiques.	- romation	5	2	4	2
13.	Faites une liste des genres masculin et féminin à partir des mots sui		2	2	2	2
	(a) église, (b) café, (c) musée, (d) table, (e) s (f) poste (g) banque (h) restaurant (i) université (i) i	7				
14.	(f) poste (g) banque (h) restaurant (i) université (j) j' Chassez l'intrus :	us de Iruits	5	2		
	(a) Mardi / Vendredi / Lundi / Mars (b) Deux / Onze / Trente	/ Tento	2	4	2	2
	(c) Thé / Café / Lait / Pomme (d) Je / Il / Tu / Nous	, / I CIIIC				
	(e) Rouge / Rose / Jaune / Blanc					
	(C) Rouge / Rose / Jaulie / Dialic					

			PAR	T-C				
		Toutes.	les quest	tions sont obligatoires	(3Q	x 10M=	= 30 Ma	irks)
15.	Со	njuguez les verbes au présent:			10	2	3	3
	(a)	Nous à danser.		(Commencer)				
	(b)	J' des livres.		(Avoir)				
	(c)	Est-ce que vous chaque m	atin?	(Lire)				
	(d)	Paris la capitale de la Franc	ce.	(Être)				
	(e)	Tu de la musique classic		(Écouter)			1	
	(f)	Ils à Marseille.		(Habiter)				QA.
	(g)	Je le devoir.		(Finite)			All Control of the Co	Alle s.
	(h)	Elle du ski.		(Faire)				
	(i)	Je à l'université à 7h30 du	matin	(Aller)				
	(i)	Ti Kishor Kumar.		(S'appeler)		- A	4300	
16.	(a)	Réécrivez les phrases en utilisant	Est-ce o	que»	5.	2	3	3
		(a) Il aime le français.			And the state of t	A		
		(b) Vous mangez du pain.						
		(c) Ils parlent anglais.			The state of the s			
		(d) Vous vous appelez Dubois			The state of the s			
		(e) Elle nage à la piscine.						
		(f) Tu joues avec le chien.						
		(g) Il lit le livre de français.						
		(h) Elle va au cinéma.						
		(i) Tu fais tes devoirs le soir.						
		(i) Il s'appelle Ashoka.						
	(b)	Complétez les phrases avec les pré	positions	s.	5	2	3	3
		(en, avec, chez, de	- AMERICAN STATE OF THE PARTY O	y y				
		(a) Je suis né(e) en 2004.	B. S					
		(b) Vous allez & Lyon en	juin.					
		(c) Il vient @ Paris.	The same					
		(d) Je vais au cinéma, tu viens	n	noi.				
*		(e) Je vais chez moi.						
7.	Asso	ciez les mots de chaque colonne:			10	2	3	3
		Liste-A		Liste-B				
	(a)	Je/tu/il/elle	(i)	Bleu, blanc, rouge				
	(b)	le 25 octobre	(ii)	l'heure				
	(c)	le drapeau	(iii)	les pronoms sujets				
	(d)	J'ai	(iv)	la négation				
	(e)	La Tour Eiffel	(v)	les prépositions				
	(f)	Mon, Vos, tes	(vi)	les articles indéfinis				
	/	Je ne suis pas écrivain.	(vii)	dix-sept ans				
	(g)			· la date				
-	(h).	Il est douze heure quinze	(ix)	les adjectifs possessifs				
A	(1)	à / avec / chez/dans	(X)	Paris				
1	(1)	Jun / une/ des	(1)					

### SRM Institute of Science and Technology Department of Computer Application



Delhi - Meerut Road, Sikri Kalan, Ghaziabad, Üttar Pradesh - 201204

Academic Year: 2022-23 SET - A

Test

: Internal Examination III Date & Session: 1/11/2023 & MN

Course Code & Title: UCD23V01T / Universal Human Values

Year & Sem

: I Year & I Sem

Max. Marks: 100

	& Sem : I Year & I Sem Max. Mar	ks: 100			
Answ	Part - A er all questions	(10Q x	2M =	20 M	arks
Q. No		Marks	BL	CO	PC
1	"Honesty prospers in every condition of life", justify this statement.	2	2	4	1
2	How would you distinguish sincerity from integrity?	2	2	3	3
3	Who is one of the compassionate people you know and why do you think so?	2	1	1	1
4	How priority clashes the path of righteousness?	2	3	4	1
5	Differentiate between empathy and sympathy.	2	2	3	1
6	Enumerate the concept of external peace.	2	2	4	1
7	Explicate Gandhi's philosophy of non-violence?	2	1	4	1
8	Why are relationship considered important for human beings?	2	2	1	1
9	Is world peace possible? Explain your views.	2	2	2	1
10	How would you distinguish between respect and gratitude?	2	2	3	3
	Part B				
	Answer all questions	5Q x 1	6M =	= 80 M	larks
11.	(A) What is righteousness and why is it necessary in our life? Validate your arguments by outlining the traits of a well-known person.	16	2	3	3
	(OR)				
		16	2	4	1
12.	(OR)  (B) When there is freedom, equality, and justice, peace can be best achieved. Do	16	2	4	1
12.	(OR)  (B) When there is freedom, equality, and justice, peace can be best achieved. Do you agree?  (A) What are the pillars of non-violence; explain Martin Luther King's concept of		2	4	1
12.	(OR)  (B) When there is freedom, equality, and justice, peace can be best achieved. Do you agree?  (A) What are the pillars of non-violence; explain Martin Luther King's concept of non-violence.		2	4	2

				AND RESIDENCE PROPERTY.	
-	(B) May peace prevail on earth", justify this statement by showing how we can	16	2	4	3
	promote peace?  (A) What will happen if people don't practice love and compassion? Explain it.	16	3	3	1
	(OR)				
	(B) Enumerate some of the important values which lie at the base of good	16	2		2
	relationship.	16	2	5	2
j.	Did you know?				
	This photo was taken by Kevin Carter.				
	He won Pulitzer Prize for this nicture of a vulture waiting for a				
	starving girl to die. The photographer committed suicide out of depression				
	after taking this picture.				
	Ideas for Discussion				
	1. Discuss the caption.				
	2. Can we end world hunger?				
	3. The gap between developed & under-developed nations.				
	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?				
	3. The gap between developed & under-developed nations.				
	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)	16			
(B)	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)  (OR)	16	2		5 2
(B)	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)  Roshan and Kareena are coming out of the classroom talking about the FIFA world cup happening in Qatar. Roshan is excitedly cheering USA, but Kareena is sarcastic of him for the constant under performance of USA men's team in the previous world		2		5 2
(B)	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)  Roshan and Kareena are coming out of the classroom talking about the FIFA world cup happening in Qatar. Roshan is excitedly cheering USA, but Kareena is sarcastic of him for the constant under performance of USA men's team in the previous world cups. Still Roshan is optimistic this time that USA men's team will at least go the		2		5 2
(B)	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)  Roshan and Kareena are coming out of the classroom talking about the FIFA world cup happening in Qatar. Roshan is excitedly cheering USA, but Kareena is sarcastic of him for the constant under performance of USA men's team in the previous world cups. Still, Roshan is optimistic this time that USA men's team will at least go the semi-finals as they get world class training and privileges. Upon hearing the privileges that men's team get, Kareena further teases Roshan comparing it to the		2		
(B)	3. The gap between developed & under-developed nations.  4. Can depression kill somebody?  (OR)  Roshan and Kareena are coming out of the classroom talking about the FIFA world cup happening in Qatar. Roshan is excitedly cheering USA, but Kareena is sarcastic of him for the constant under performance of USA men's team in the previous world cups. Still, Roshan is optimistic this time that USA men's team will at least go the semi-finals as they get world class training and privileges. Upon hearing the privileges that men's team get, Kareena further teases Roshan comparing it to the USA women's team for their sheer success despite the lower pay and less privileges.		2		
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