RA2331242030020

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

SRM
DELHI-NCR CAMPUS, GHAZIABAD (U.P)

Academic Year: 2023-24 (EVEN) SET – B

Test : Internal Examination III	**Date &Session: FN/03/04/24.**
Course Code &Title :ULF23G02J/FRENCH II	**Duration:3 Hours**
Year & Sem :1st year/2nd sem	**Max. Marks: 100 Marks**

Part - A

Answer all questions **(10Q x 2M = 20 Marks)**

Q. No	Question	Marks	BL	CO	PO
1	Choisissez le mot correct: (a)Il fait froid. Nous sommes ____(ete/hiver) (b) je boire___cafe(dela/du)	2	2	1	3
2	Conjuguez les verbs au present: (a)Aller (b) Avoir	2	1	1	8
3	Choisissez la bonne response : (a) il habbite au ____etage (deux/rez-de-chaussee)	2	1	2	11
4	Écrivez trois activités que vous aimez faire ?	2	2	2	10
5	Conjuguez les verbes suivants les pronominaux verbs: (a) Se doucher (b) Se coucher	2	3	3	9
6	Tu achètes _____ de bonbons ? a) Pourquoi (b) Combien (c) Qui	2	2	3	12
7	Mettez les verbes au futur proche: (a)Vous....(travailler) comme interprète (b)Stéphane....(arriver)dans deux minutes	2	1	4	6
8	Nous _____ quel bus pour aller au musée (prendre)	2	3	4	7
9	Ecrivez le contraire de : (a) Se coucher (b) Aller	2	2	5	6
10	Quand une personne souhaits la fête du travail ? (a) 1 Mai (b) 8 Juillet (c) 21 Juin (d) 25 Dec	2	3	5	6

Part B

	Answer all questions	**5Q x 16M = 80 Marks**			
11.	(A) Ecrivez un paragraphe sur vos loisirs en 15 -20 en lignes :	16	2	1	11
	(OR)				
	(B) Écrivez la routine vos amie quotidienne en 15-20 lignes?	16	1	1	12
12.	(A)B) Conjuguez les verbes suivants les verb pronominaux: (1) Se coiffer (5) Se parler (2) Se souvenir (6) Se laver (3) Se coucher (7) Se raser 4) Se brosser (8) Se maquiller	16	2	2	10
	(OR)				
	(B)Complétez avec les adjectifs démonstratifs (1) je ne connais pas _____ homme. (2) C'est qui, _____ gens sur la photo? (3) Je vais prendre _____ route, c'est plus rapide. (4) J'aime beaucoup _____ roman américain. (5) Vous signez _____ papiers, s'il vous plaît! (6) Elle est où _____ université? (7) je ne connais pas _____ homme. (8)l_____ femme est polonaise. Elle s'appelle Dagmara.	16	1	2	12

13.	(A) complétez la liste de Emballages: (1) ..... de lait (2)..... de sachets de thé (3) ..... de biscuits (4)..... de céréales (5)..... de poulet (6)..... trois camemberts (7).....d'eau (8).....de gruyere	16	2	3	10
	(OR)				
	(B) Conjuguez les verbes suivants; (1) Devoir (2) Pouvoir (3) Vouloir (4) Vendre (5) Savoir (6) Achter (7) Prendre (8) Sortir	16	3	3	4
14.	(A)(A) Traduire dans l'anglais La cliente : Bonjour monsieur.Je voudrais des oranges, s'il vous plaît. Le vendeur ; Vous en voulez combien ? La cliente ; Deux kilos.Et des kiwis,vous enavez? Le vendeur ; Désolé, je n'ai pas de kiwis aujourd'hui vous désirez autre chose ? La cliente ; Non, ce sera tout, Je vous dois combien pour les deux kilos d'oranges ? Le vendeur : 5 euros 80 La cliente ; Voilà, tenez, monsieur. Le vendeur ; Merci. Au revoir madame	16	2	4	12
	(OR)				
	(B)Faites cinq pharses en utilisant les verbes donnes: (1) Se reveiller (2) Dormir (3) Sortir (4) Lire (5) Acheter	16	2	4	6
15.	(A) Choisissez le bon mot interrogative : (1) _____ est ton pays préféré ? (a) Quelle (b) Quel (c) Quels (2) _____actrices choisiras-tu, Sophie Marceau ou Sharon Stone ? (a) Quelle (b) Qui (c) Que (3) A _____ heure est ton rendez-vous ? (a) Quelle (b) Quel (c) Quoi (4) _____ a-t-elle accouché ? (a) Que (b) Quoi (c) Quand (5) A _____ penses-tu ? (a) Quoi (b) Où (c) Pourquoi (6) _____ se trouve Paris ? (a) Où (b) Quel (c) Qui (7)_____ est ton professeur de français? (a) Quoi (b) Que (c) Qui (8) Tu achètes _____ de bonbons? (a) Pourquoi (b) Combien (c) Qui	16	3	5	10
	(OR)				
	(B) Complétez les phrases avec passé récent: (1) Je.....(montre) ce beau film. (2) Il.....(visiter) de la salle de sport. (3) Elle..... (appeller) sa grand-mère. (4) Tu..... (ranger) rapidement tes affaires. (5) Camille..... (Trouver) son déjeuner avec sa famille. (6) Le Français.....(manger) fromage après chaque repas. (7)Tu soif. Donnez-moi.....(boire) eau s''il vous plaît ! (8)Juliya .....(vendre) soupe aux champignons	16	3	5	9

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Academic Year: 2023-24 (EVEN) SET – B

Test : Internal Examination III	**Date & Session: 04/04/2024 & FN**
Course Code & Title : UES23AE1T, Environmental Studies	**Duration: 3 Hours**
Year & Sem : I Year & II Sem	**Max. Marks: 100 Marks**

Part - A

Answer all questions **(10Q x 2M = 20 Marks)**

Q. No	Question	Marks	BL	CO	PO
1.	Write the definition and scope of environmental studies.	2	1	1	1
2.	What are food and Mineral resources?	2	1	1	12
3.	Define Aquatic ecosystem? Give examples	2	2	2	1
4.	Differentiate Endangered and Endemic species of India	2	2	2	1
5.	What is Soil Pollution and its impact?	2	1	3	1
6.	Define Solid waste management?	2	3	3	6
7.	How are urban problems related to energy?	2	3	4	6
8.	Write a short note on Wasteland Reclamation?	2	1	4	4
9.	What is the relationship between Environment and Human Health?	2	1	5	1
10.	Briefly explain the Forest Conservation Act?	2	3	5	1

Part B

	Answer all questions	**5Q x 16M = 80 Marks**			
11.	(A) Explain the concept of an ecosystem, its structure and its functions with a neat and clean sketch	16	1	1	1
	(OR)				
	(B) Explain in details the renewable and non-renewable resources of energy with associated problems.	16	2	1	1
12.	(A) Explain the energy flow in an ecosystem with a neat and clean sketch.	16	2	2	1
	(OR)				
	(B) Explain biodiversity conservation, including genetics, species, and ecosystem diversity.	16	3	2	1
13.	(A) Explain Marine Pollution's causes, effects and control methods.	16	3	3	1
	(OR)				
	(B) Explain the role of the individual in pollution control and prevention?	16	1	3	6

14.	(A) Explain global warming and climate change its effects on humans and vegetation and the factors responsible for them.	16	3	4	2
	(OR)				
	(B) How can we achieve sustainable development from unsustainable?	16	1	4	8
15.	(A) Explain the Air (Prevention and Control of Pollution) Act	16	1	5	1
	(OR)				
	(B) Explain the population explosion and the role of government-run family welfare programmes.	16	2	5	8

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Academic Year: 2023-24 (EVEN) SET – B

Test	: Internal Examination III Date & Session : 05-04-2024 & FN
Course Code & Title	: UDS23201J Introduction To Computing With Distributed Data Processing
Year & Sem	: I Year/ II Sem
Duration	:3 Hours
Max. Marks	: 100 Marks

Part - A

Answer all questions **(10Q x 2M = 20 Marks)**

Q. No	Question	Marks	BL	CO	PO
1	Define DBMS.	2	1	1	1
2	What is Andrew File System?	2	3	1	7
3	Define Distributed Transaction.	2	2	2	1
4	What do you understand by IaaS?	2	2	2	5
5	What is the difference between hard parsing and soft parsing?	2	2	3	9
6	How to insert bulk entries in MongoDB? alsowrite their syntax and examples.	2	3	3	3
7	What are the types of distributed operating system?	2	2	4	9
8	Define HDFS.	2	3	4	4
9	What is Apache Spark?	2	3	5	1
10	Define time complexity.	2	1	5	1

Part B

	Answer all questions	5Q x 16M = 80 Marks			
11.	(A) Define Distributed File System. Discuss issues and goals of DFS.	16	3	1	5
	(OR)				
	(B) Describe Iaas, Paas and SaaS.	16	1	1	1
12.	(A) Define distributed transaction. What are the properties of ACID?	16	3	2	5
	(OR)				
	(B) What is DDMS and what are their types and functions of distributed database management system?	16	2	2	9
13.	(A)What are the layers of query processing?	16	3	3	12
	(OR)				
	(B) Define Optimization. Explain how to optimize query performance.	16	2	3	11
14.	(A) Define MongoDB? What is CRUD operation in MongoDB? Explain with example.	16	2	4	8

	(OR)				
	(B) Describe in detail about distributed operating system. What are the advantages and disadvantages of distributed operating system.	16	3	4	9
15.	(A) Elaborate HDFS architecture.	16	1	5	11
	(OR)2				
	(B) Define these terms in short: (i) asynchronous message passing (ii) Basic OpenMP Concepts (iii) Apache Spark (iv) NFS	16	1	5	2

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Academic Year: 2023-24 (EVEN) SET – A

Test : Internal Examination III	Date & Session : 06/04/2024 & FN
Course Code & Title : UDS23202J & Fundamentals of Data Structures & Algorithms	Duration:3 Hours
Year & Sem : I Year & II Semester	Max. Marks: 100 Marks

Part - A

Answer all questions (10Q x 2M = 20 Marks)

Q. No	Question	Marks	BL	CO	PO
1	Explain the concept of a one-dimensional array and how it is stored in memory.	2	L1	1	2
2	Break down the advantages and disadvantages of using linked lists over arrays.	2	L3	1	11
3	Describe the LIFO (Last-In-First-Out) property of a stack with a suitable example. Explain why this property is fundamental to the functioning of a stack.	2	L2	2	2
4	Explain the significance of the "front" and "rear" pointers in a queue data structure.	2	L1	2	12
5	Describe the process of binary search tree traversal.	2	L2	3	4
6	Define an AVL tree.	2	L1	3	12
7	Describe the concept of a singly linked list and a doubly linked list	2	L2	4	4
8	Determining the divide-and-conquer strategy used in Merge Sort.	2	L3	4	12
9	Define backtracking.	2	L1	5	1
10	Describe the minimum spanning tree.	2	L3	5	2

Part B

	Answer all questions	**5Q x 16M = 80 Marks**			
11.	(A) Differentiate between linear and non linear data structures with example.	16	L2	1	2
	(OR)				
	(B) Apply binary search on the linear array to search for the element [26], After applying bubble sort on the given array: 26, 13, 58, 2, 16, 1, 7.	16	L3	1	11
12.	(A) Explain "Linked List" and its types in detail.	16	L1	2	12
	(OR)				
	(B)Explain Polish notations and reverse polish notations- infix, postfix, prefix with proper example.	16	L1	2	2
13.	(A) Discuss the "Tower of Hanoi" problem in the context of stack data structure.	16	L2	3	12
	(OR)				
	(B) Define priority queue. Represent queue with the help of array.	16	L3	3	4

14.	(A)Explain "Linear search" and "Binary search" in Searching with proper example, algorithm as well.	16	L1	4	12
	(OR)				
	(B)Demonstrate "Hashing". Describe the collision avoidance and separate chaining method.	16	L3	4	4
15.	(A) Contrast Graph traversal by BFS and DFS techniques with proper example.	16	L3	5	1
	(OR)				
	(B) Elaborate the prims algorithm for minimum spanning tree.	16	L3	5	2

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Academic Year: 2023-24 (EVEN) SET – A

Test : Internal Examination III | **Date & Session :08-04-2024**
Course Code & Title : 21UDS23203T & Role of Statistics in AI | **Duration: 3 Hours**
Year & Sem : I & II | **Max. Marks: 100 Marks**

Part - A

Answer all questions (10Q x 2M = 20 Marks)

Q. No	Question	Marks	BL	CO	PO
1	What is the collection of data?	2	1	1	1,6
2	What are the different parts of a statistical table?	2	1	1	1,6
3	Find the median of the following: 3, 9, 4, 6, 8, 2, 5.	2	3	2	1,6
4	Find the mean of the following: 2, 5, 7, 11, 3, 9, 12, 8.	2	3	2	1,6
5	Define measure of dispersion.	2	1	3	1,6
6	Find the probability of two heads in tossing of three coins.	2	3	3	1,6
7	Define Spearman's Rank correlation coefficient.	2	2	4	1,6
8	State Baye's theorem.	2	2	4	1,6
9	Define t-test.	2	1	5	1,6
10	What is ANOVA?	2	1	5	1,6

Part B

Answer all questions (5Q x 16M = 80 Marks)

11.	(A) Describe classification of data and its types.	16	3	1	1,6
	(OR)				
	(B) Draw 'less than' and 'more than' ogive curves from the following data:	16	3	1	1,6

Marks	0-5	5-10	10-15	15-20	20-25	25-30	30-35
No. of Students	7	10	20	13	12	19	14

12.	(A) Calculate the median and mode from the following data:	16	3	2	1,6

C.I	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70-80
f	2	18	30	45	35	20	6	27

(OR)

	(B) Calculate the rank correlation co-efficient between 'X' and 'Y' variables.	16	3	2	1,6

X	10	20	35	14	18	21	16
Y	15	25	18	19	20	26	27

13.	(A) Calculate Karl Pearson's coefficient of correlation by actual mean method:	16	3	3	1,6

Price (Rs)	10	20	14	16	18
Quantity (Units)	20	29	21	22	28

(OR)

	(B) Find the line of best fit for the following data, treating x as dependent variable (Regression equation X on Y):	16	3	3	1,6

X	1	3	7	8	10
Y	7	6	5	3	2

14.	(A) In a neighborhood, 90% children were falling sick due flu and 10% due to measles and no other disease. The probability of observing rashes for measles is 0.95 and for flu is 0.08. If a child develops rashes, find the child's probability of having flu.	16	3	4	1,6

<table>
<tr><td colspan="6">(OR)</td></tr>
<tr><td></td><td>(B) Three urns are there containing white and black balls; first urn has 3 white and 2 black balls, second urn has 2 white and 3 black balls and third urn has 4 white and 1 black balls. Without any biasing one urn is chosen from that one ball is chosen randomly which was white. What is probability that it came from the third urn?</td><td>16</td><td>3</td><td>4</td><td>1,6</td></tr>
<tr><td>15.</td><td>(A) The life time of electric blubs for a random sample of 10 from a large consignment gave the following data:
<table><tr><td>Item</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>Life in 000 hrs</td><td>4.2</td><td>4.6</td><td>3.9</td><td>4.1</td><td>5.2</td><td>3.8</td><td>3.9</td><td>4.3</td><td>4.4</td><td>5.6</td></tr></table>Can we accept the hypothesis that the average lifetime of blub is 4000 hrs?
Table value: $[t_{9,0.05} = 2.262]$</td><td>16</td><td>3</td><td>5</td><td>1,6</td></tr>
<tr><td colspan="6">(OR)</td></tr>
<tr><td></td><td>(B) From the following table regarding the color of eyes of father and son, test if the color of son's eye is associated with that of the father.
<table><tr><td rowspan="2">Eye color of father</td><td colspan="2">Eye color of son</td></tr><tr><td>Light</td><td>Not Light</td></tr><tr><td>Light</td><td>471</td><td>51</td></tr><tr><td>Not Light</td><td>148</td><td>230</td></tr></table>Table value: $[\chi^2_{0.05,1} = 3.841]$</td><td>16</td><td>3</td><td>5</td><td>1,6</td></tr>
</table>