2216100585

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

Subject Name & Code: Business English (ULE21AE1T)

Max. Marks: 30 **Time: 1Hr 30 min**

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

1. What do you understand by Expressive and Receptive skills?
2. Write barriers of effective listening process.
3. What are the techniques for effective reading?
4. What do understand by critical listening?
5. Write a note on Skimming and Scanning?
6. Describe 'process of communication'.
7. What is seeking and receiving information?
8. Who are stake holders in communication?
9. What are the channels of communication?
10. What do you know about Internal Tele communication?

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

1. Listening is not the same as Hearing. Explain in detail.
2. Describe 'Types of Reading'?
3. Describe 'Descriptions of product'?
4. What is communication? Explain in detail.
5. Explain 'Barriers of Communication'.

SRM Institute of Science and Technology
NCR Campus, Modinagar
Department of Computer Applications
CT-1, September 26, 2022

Subject Name:Introduction to advance computing **Max. Marks:30**

Subject Code: UDS21102J **Time: 1hr 30 min**

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

1. What is Advance computing?
2. Explain the term HPC?
3. What is firm Real time computing?
4. What is cluster computing?
5. Define high availability cluster?
6. Signify the term cluster availability?
7. What is cloud computing?
8. What is multilingual computing?
9. Write the abbreviations of AWS and GCP?
10. Define B-aaS?

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

1. Explain Serverless Computing and its architecture?
2. Give a brief overview of Distributed computing?
3. Write advantages and disadvantages of HPC?
4. What are the differences between distributed computing and shared computing?
5. Explain the Architecture of Real Time Computing

Student's Name : 2216100 5858

(Write your name here)

DEPARTMENT OF COMPUTER APPLICATIONS
CYCLE TEST-1, SEPTEMBER 2022
BCA-DS, First Semester

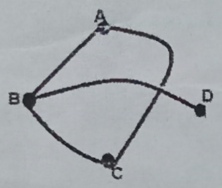
UDS21101T-INTRODUCTION TO ARTIFICIAL INTELLIGENCE

Time: 90 Minutes Max. Marks: 30

Answer **ALL** Questions

PART – A (1 × 10 = 10 Marks)

1. Define artificial intelligence.
2. Write down various components of AI.
3. Role of AI in academic.
4. Represent the given graph in matrix form.



5. Define sample data.
6. Give the advantages of digital transformation:
7. What is the role of measure of central tendency?
8. Define the term Data analytics.
9. What is data science?
10. What is statistics? Why it is important?

Answer **ANY FOUR** Questions

PART – A (5 × 4 = 20 Marks)

11. Describe the working of AI in any two given sector:
    i. Health ii. Consumer
    iii. Energy iv. Oil and Gas
12. Define four main areas of digital transformation.
13. Explain the various diagrammatic representation of data.
14. Suppose 4 students reach the school at the following hour of time: 7:50 AM, 7:54 AM, 7:55 AM, 8:02 AM against the scheduled time of 8:00 AM.
    Give any four inferences from the above statement.
15. Define co-variance and correlation and write down the various relationships between them.

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SRM Institute of Science and Technology, NCR Campus
Department of Computer Applications
B.CA I Semester
Cycle Test- 1, September - 2022

Subject Code: U[illegible]F20G01J *Subject Name: F[illegible]nch I*
Time: 90 Minutes **Total Marks: 30**

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

1._____ est la fête nationale de France.

A) Le 14 Juillet B) Le 18 Janvier
C) Le 15 Août D) Le 20 Mars

2.Le drapeau de la France est _____

A) Bleu, Rouge Blanc B) Rouge, Bleu, Blanc
C) Blanc Rouge , Bleu D) Bleu, Blanc , Rouge

3.L'hymne nationale est _____

A)La Marseillaise B) Lofsongur
C)Milli Thiran D) Hatikvah

4._____ est une montagne française.

A) La Manche B) Les Alpes
C) La Rohne D) La bassin Parisien

5. 50 en français , c' est _____

A)Quarante B) Trente
C) Cinquante D) Soixante

6. Charlotte habite en Chine . Elle est _____

A)Chinois B) Chinoise
C) Chinoisse D) Chinoises

7._____ sommes sportifs et intelligents.

A)Vous B) Je
C) Elle D) Nous

Qu'est ce que ça va dire<<Nice to meet you>> en français

A) A demain
B) En chanté
C) Au revoir
D) Bonne Journée

9. J' ai _____ Voiture noire.

A) Une
B) Un
C) Des
D) De la

10. Elle aime _____ glace et _____ chocolats

A) La, les
B) les, l'
C) l' la
D) le , la

Section- B

(Attempt any 4 questions) 4X5=20)

11) Présentez - Vous (Present yourself) (4)

12) Écrivez les mois de l'année. (4)

13.) Ecrivez les jours de la semaine. (4)

14) Ecrivez les animaux domestique (4)

15) Conjuguez les verbes au présent:(0.5x=4)

1. Elle _____ francaise.(Être)
2. Vous _____ professeur.(Être)
3. Nous _____ des questions.(Avoir)
4. Mon père _____ sympathique.(Être)
5. Mes cousins _____ des vacances.(Avoir)
6. Tu _____ anlgais, hindi et en peu français..(Parler)
7. Vous _____ en Italie.(Habiter)
8. Nous _____ la télé .(Regarder)

Aayush Gaur

SRM Institute of Science and Technology

NCR Campus, Modinagar

Department of Computer Applications

CT-1, September-2022

Subject Name & Code: Role of Mathematics in AI (UDS21G01T)

Max. Marks: 30 **Time: 1Hr 30 min**

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

Q1. Define Symmetric matrix with an example.

Q2. Find the chance of throwing an even number with an ordinary six faced die.

Q3. If $y = e^x \sin x$, then calculate $\frac{d^2y}{dx^2}$.

Q4. If $A = \begin{bmatrix} 2 & 4 \\ 6 & 5 \end{bmatrix}$, then calculate $A^3 - A$.

Q5. If $\vec{A} = 5\mathbf{i} - 2\mathbf{j} + 4\mathbf{k}$ and $\vec{B} = \mathbf{i} + 3\mathbf{j} + 7\mathbf{k}$. Find the magnitude of $2A - B$.

Q6. Define mutually exclusive events.

Q7. Check whether the function $f(x) = x^2$ is one-to-one or not?

Q8. What is the role of mathematics in AI.

Q9. When a graph is called complete bipartite graph? Give an example.

Q10. Define the chromatic number of a graph. What is the chromatic number of a complete graph.

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

Q11. If $A = \begin{bmatrix} -5 & 2 \\ 2 & -2 \end{bmatrix}$, then find the eigenvalues and eigenvectors of A.

Q12. Let X be continuous random variable having the density function $f(x) = 0.75(1 - x^2)$ if $-1 \leq x \leq 1$ and zero otherwise. Find the distribution function $F(x)$.

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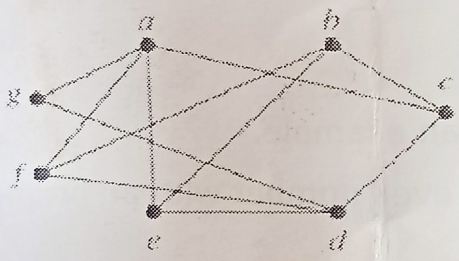
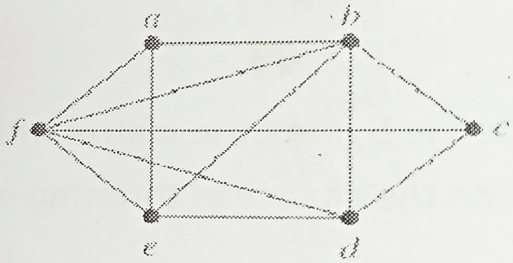
Q13. Three urns contain 6 red, 4 black; 4 red, 6 black; 5 red, 5 black balls respectively. One of the urns is selected at random an a ball is drawn from it. If the drawn ball is red, find the probabilit that it is drawn from the first urn.

Q14. Define **(i)** Tree, **(ii)** Rooted Tree and **(iii)** Binary Tree.

Q15. Are the graphs G and H displayed in figure Bipartite? Explair



G



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