

SRM Institute of Science & Technology, NCR Campus
Department of Computer Application
Internal Examination-2 (Set-B)

Subject Name: Introduction to Machine Learning
Subject Code : UDS21S02T
Time: 1 Hr. 30 Min.

Course: BCA-DS
Sem/Year: 2nd/1st
Max. Marks: 30

Answer **ANY FIVE** Questions
PART - A (5 X 2 = 10 Marks)

| | Marks | BL | CO | PO |
|---|-------|----|----|----|
| 1. Draw a decision tree (binary) for the statement "If a person is having experience of less than 5 years his salary will be 50K, if his experience is greater than 5 but less than 15 years his salary will be 80K, otherwise his salary will be 1.5 Lak". | 2 | 3 | 3 | 2 |
| 2. Write down an equation for the polynomial regression. | 2 | 1 | 3 | 2 |
| 3. Represent underfitting by a graph using both training and testing data. | 2 | 3 | 3 | 2 |
| 4. Write down various applications of random forest. | 2 | 1 | 4 | 1 |
| 5. Write down any four classification problems. | 2 | 1 | 4 | 2 |
| 6. What is regression? | 2 | 1 | 2 | 2 |
| 7. Describe about boosting technique. | 2 | 2 | 2 | 2 |
| 8. Compare classification and clustering algorithms. | 2 | 2 | 2 | 2 |

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

| | | | | |
|---|---|---|---|---|
| 9. What is sigmoid function? Write an explain about Logistics regression. | 5 | 1 | 3 | 2 |
| 10. What is random forest? Explain in detail. | 5 | 2 | 4 | 2 |
| 11. What is regularization? Explain about Ridge regularization. | 5 | 2 | 4 | 2 |
| 12. What is clustering? Explain different types of clustering techniques. | 5 | 2 | 4 | 2 |
| 13. Describe K-Nearest Neighbor(KNN) algorithm. | 5 | 2 | 4 | 2 |

SRM Institute of Science and Technology
NCR Campus, Modinagar
Department of Computer Application
IE-II, March-2022, Set-B

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: 2*5=10) Attempt any five questions | | Marks | BL | CO | PO |
|---|---|-------|----|----|----|
| 1 | What are mutually exclusive event? | 2 | 1 | 3 | 1 |
| 2 | What will be the probability of getting odd numbers if a dice is thrown? | 2 | 3 | 3 | 2 |
| 3 | A coin is tossed up 4 times. Find the probability that tails turn up in 3 cases | 2 | 3 | 3 | 2 |
| 4 | What are the mean and variance of normal distribution? | 2 | 1 | 3 | 1 |
| 5 | If λ is the mean of Poisson Distribution, then find $P(0)$ | 2 | 1 | 3 | 1 |
| 6 | What is Null Hypothesis? | 2 | 3 | 3 | 2 |
| 7 | What is two tailed hypothesis? | 2 | 3 | 4 | 1 |
| 8 | What is type-I error? | 2 | 5 | 4 | 1 |

| PART - B (Marks: 5*4=20) Attempt any four questions | | Marks | BL | CO | PO |
|---|---|-------|----|----|----|
| 1 | The probability that a student passes a certain exam is 0.9, given that he studied. The probability that he passes the exam without studying is 0.2. Assume that the probability that the student studies for an exam is 0.75. Given that the student passed the exam, what is the probability that he studied? | 5 | 5 | 3 | 2 |
| 2 | The probability mass function of R.V. X is given by $P(X = x) = kx^3, x = 1, 2, 3, 4$. (i) Find the value of k (ii) $P(0.5 < X < 2.5/x > 1)$ (iii) cumulative distribution function of X . | 5 | 5 | 3 | 2 |
| 3 | A radioactive source emits on the average 2.5 particles per second. Calculate the probability that 3 or more particles will be emitted in an interval of 4 seconds. Assume the radioactive emission follows Poisson distribution. | 5 | 5 | 3 | 2 |

4 A sample of 900 members is found to have a mean of 3.47 cm. can it be reasonably regarded as a simple sample from a large population with mean 3.23 cm. and standard deviation 2.31 cm. [Given that $Z_{0.05} = 1.96$]

5 5 4 2

5 Two different types of drugs A and B were tried on certain patients for increasing weight. Five persons were given drug A and 7 persons were given drug B . The increase in weight (in kg.) is given below:

5 5 4 2

Drug A : 3.6 5.5 5.9 4.1 1.4

Drug B : 4.5 3.6 5.5 6.8 2.7 3.6 5.0

Do the two drugs differ significantly with regard to their effect in increasing weight? [Given that $(t_{0.05}(\nu = n_1 + n_2 - 2 = 10) = 2.228]$

CRM

(1) Salesforce

(2) HubSpot

ERP

(1) SAP ERP

(ii) Microsoft Dynamics 365 Business Central

SRM Institute of Science and Technology NCR Campus, Modinagar
 Department of Computer Application
 Internal Exam -2, March -2023

Subject Name: Advanced Computing with Distributed Data Processing

Subject Code: UDS21202J

Time: 1Hr 30 min

Sem/Year: 2nd Sem/1st Year

Max. Marks: 30

| PART - A (Marks: 2*5=10) Attempt any five questions | | | | |
|---|-------|----|----|----|
| | Marks | BL | CO | PO |
| 1 Define SOA. | 2 | 2 | 3 | 2 |
| 2 List out few drawbacks of grid computing. | 2 | 1 | 2 | 1 |
| 3 Differentiate Between HDD and SSD. | 2 | 2 | 2 | 3 |
| 4 Describe some examples of CRM and ERP implementation based on cloud computing technologies. | 2 | 2 | 1 | 7 |
| 5 What is Google App Engine? | 2 | 1 | 5 | 1 |
| 6 Give details of SPMD? | 2 | 3 | 3 | 3 |
| 7 Write a short note on 1) Process 2) Thread | 2 | 4 | 4 | 6 |
| 8 What is PMG? | 2 | 5 | 6 | 5 |

| PART - B (Marks: 5*4=20) Attempt any four questions | | | | |
|--|-------|----|----|----|
| | Marks | BL | CO | PO |
| 1 Write some various types of data scoping rules. | 5 | 2 | 4 | 12 |
| 2 Explain sample MPI program in C. | 5 | 4 | 2 | 10 |
| 3 Describe about dynamic load balancing. | 5 | 5 | 5 | 7 |
| 4 What do you mean by distributed data and dataset? | 5 | 1 | 3 | 3 |
| 5 Define the whole concept of Parallel computing barriers. | 5 | 3 | 5 | 4 |

(1) (i) Global scoping (ii) local scoping (iii) static scoping (iv) dynamic scoping
 (v) lexical scoping (vi) non-local scoping (vii) parameter scoping

SRM Institute of Science and Technology
NCR Campus, Modinagar
Department of Computer Application
IE-II, March-2023

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

Course: BCA(Data Science)
Sem/Year: 2nd Sem/I Year
Max. Marks: 30

| | Marks | BL | CO | PO |
|---|-------|----|----|----|
| PART - A (Marks: 5*2=10) Attempt any five questions | | | | |
| 1 What is Scipy? | 2 | 1 | 2 | 1 |
| 2 What is concatenate () function in Numpy? | 2 | 2 | 1 | 3 |
| 3 Define the term “Scipy Constants”. | 2 | 1 | 2 | 2 |
| 4 What is the difference between Sparse Data and Dense array? | 2 | 1 | 2 | 3 |
| 5 What is a CSV file? | 2 | 2 | 1 | 3 |
| 6 Describe the use of “Scikit Learn” library. | 2 | 5 | 4 | 3 |
| 7 What is “Tensorflow”? | 2 | 2 | 2 | 3 |
| 8 What is the use of NLTK? | 2 | 5 | 3 | 4 |
| | Marks | BL | CO | PO |

| | | | | |
|--|---|---|---|---|
| PART - B (Marks: 5*4=20) Attempt any four questions | | | | |
| 1 What are the “Shape” and “Reshape” attributes in Numpy? Explain. | 5 | 3 | 3 | 2 |
| 2 Explain the terms “Dataframe” and “Series” in pandas with program. | 5 | 2 | 4 | 3 |
| 3 What is Deep learning? How it is differ from Machine Learning? | 5 | 4 | 6 | 2 |
| 4 How Exploratory data analysis can be done using pandas? | 5 | 2 | 4 | 5 |
| 5 Explain the advantages and applications of NLP. | 5 | 3 | 1 | 4 |

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
DELHI-NCR CAMPUS, MODINAGAR-GHAZIABAD
DEPARTMENT OF COMPUTER APPLICATION
INTERNAL EXAMINATION-2

Subject Name: FRENCH-II

Subject Code: ULF20G02J

Time: 1 hour 30 min.

Course: B.C.A.

Year/Sem. 1st / 2nd

Max. Marks: 30

- *Attempt all questions from part-A, and attempt any four from part-B.*

| <u>PART-A</u> | Marks | BL | CO | PO |
|--|-------|----|----|----|
| <i>Answer all questions</i> | | | | |
| • <i>Cochez la bonne réponse.</i> | | | | |
| 1. Il est sept heures et demie. a) 7 :45 b) 7 :30 c) 7 :15 d) 7 :55 | 1 | 3 | 1 | 2 |
| 2. Vous _____. a) t'habilles b) nous habillons c) vous habillez d) s'habillent | 1 | 2 | 2 | 2 |
| 3. Je vais _____ un stylo. a) acheter b) achètes c) achète d) achetez | 1 | 2 | 1 | 2 |
| 4. Qu'est- ce que ça veut dire « chees » en français. a) légumes b) viande c) œuf d) fromage | 1 | 2 | 1 | 1 |
| 5. Chassez l'intrus : a) hiver b) automne c) auto d) printemps | 1 | 1 | 1 | 1 |
| 6. Ma mère prépare souvent _____salade. a) du b) de l' c) des d) de la | 1 | 2 | 1 | 2 |
| 7. Le septième mois de l'année est _____. a) juin b) mai c) juillet d) dimanche | 1 | 1 | 1 | 1 |
| 8. _____ fille parle français. a) Ton b) Sa c) Son d) Mon | 1 | 2 | 2 | 2 |
| 9. Je mange _____légumes. a) des b) de c) du d) de la | 1 | 2 | 2 | 2 |
| 10. « font » est la conjugaison de _____. a) finir b) faire c) falloir d) fondre | 1 | 3 | 2 | 2 |

[T.S.V.P.]

PART-B

Answer any four questions.

11. Remplissez le mot convient. 5 3 2 2
- a) Je _____ de Paris. (aller / venir)
 - b) Nous _____ à la bibliothèque. (aller / venir)
 - c) Valérie va _____ France. (au / en)
 - d) Elles _____ italiennes. (est / sont)
 - e) Il _____ froid. (fais / fait)
12. Mettez les phrases au futur proche. 5 3 2 2
- a) Elles _____ la musique. (écouter)
 - b) Je _____ le match de cricket à la télé. (regarder)
 - c) Nous _____ de la natation. (faire)
 - d) Ce soir, elle _____ au parc. (aller)
 - e) Aujourd'hui, je _____ le cinéma. (voir)
13. Réécrivez les phrases à la forme négative en utilisant-
les mots donnés. 5 2 3 6
(ne....personne, ni....ni, ne....aucune, ne...pas, ne...jamais)
- a) Avez-vous un stylo ou un crayon.
 - b) Quelqu'un est ici ?
 - c) Tu as une idée.
 - d) Il va toujours au cinéma ?
 - e) J'aime le café.
14. Remplacez les mots soulignés avec le pronom « en ». 5 3 2 2
- a) Elle vient de Paris.
 - b) L'enfant vient de l'école.
 - c) J'achète du pain.
 - d) Nous sortons du métro.
 - e) Je viens du théâtre.
15. Conjuguez les verbes au présent. 5 2 2 2
- a) Prendre
 - b) Vouloir
 - c) Devoir
 - d) Faire
 - e) Venir

*****Bonne Chance*****