

**Academic Year: 2023-24 (EVEN) SET – B**

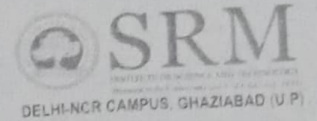
**Test** : Internal Examination II  
**Course Code & Title** : UDS21401J Deep Learning for Enterprise  
**Year & Sem** : II Year / IV Sem

**Date & Session** : 13/03/2024 & AN  
**Duration** : 1:30 Hours  
**Max. Marks** : 50

Answer all questions		Part - A (9Q x 2M = 18 Marks)			
Q. No	Question	Marks	BL	CO	PO
1.	What is a softmax activation function?	2	1	4	1
2.	Write the difference between text and tabular data.	2	2	3	3
3.	What is hyperparameter tuning?	2	1	4	1
4.	Discuss about the concept of the cost function.	2	1	3	1
5.	Define the stochastic gradient descent algorithm.	2	1	3	4
6.	Explain the vanishing gradient problem.	2	2	4	3
7.	Describe the concept of principal component analysis.	2	2	4	2
8.	Define the batch and epoch.	2	1	3	1
9.	Discuss the concept of the feature visualization through optimization.	2	1	3	3
Answer all questions		Part - B (2Q x 16M = 32 Marks)			
10.	(A) Explain the process of gradient descent and its role in optimizing the weights and biases of a neural network. How does it help in improving the accuracy of a deep learning model?	16	3	3	2
(OR)					
	(B) Discuss the concept of backpropagation in neural networks. How is it used to calculate the error and update the weights and biases of the network during training?	16	2	4	3
11.	(A) Compare and contrast the momentum optimizer, RMSProp, and Adam optimization algorithms in deep learning.	16	2	4	5
(OR)					
	(B) Describe the deep convolutional neural network.	16	1	3	1

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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: 2023-24 (EVEN) SET – A**

**Test: Internal Examination II**  
**Course Code & Title: USD21402J Introduction to Computer Vision**  
**Year & Sem: II Year / IV Sem**

**Date & Session : 14/03/2024 & AN**  
**Duration: 1:30 Hours**  
**Max. Marks: 50**

**Answer All Questions**

**Part - A**

**(9Qx 2M = 18 Marks)**

Q. No	Question	Marks	BL	CO	PO
1	What do you understand by computer vision frame work?	2	2	4	1
2	Define image filtering with example.	2	3	3	1
3	Define the concept of pixilation with example.	2	3	3	5
4	Discuss about the concept of image generation technique with diagram.	2	2	3	1
5	Define the image processing.	2	1	3	4
6	What do you understand by canny edge detectors with example?	2	3	4	5
7	Write the features open cv and CUDA computer vision framework.	2	2	3	4
8	Define tensor flow frame work.	2	1	3	1
9	Discuss the concept of image segmentation in computer vision with example.	2	1	3	2

**Part -B**

**Answer all questions**

**2Q x 16M =32 Marks**

10.	(A) Explain the SIFT (scale invariant feature transform) with example.	16	2	3	5
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**(Or)**

	(B). Explain about the image net and CIFAR in detail with example .	16	2	4	5
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11.	(A) Describe the concept of Fast (features from accelerated segment test) in details.	16	1	3	7
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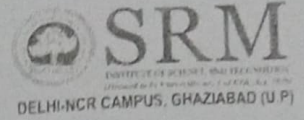
**(Or)**

	(B)Describe the object recognition and object classification in computer vision with example.	16	3	3	5
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**Academic Year: 2023-24 (EVEN) SET – A**

**Date & Session : 15/03/2024 AN**  
**Duration: 1 Hour 30 Mins**  
**Max. Marks: 50**

**Test : Internal Examination II**  
**Course Code & Title : UDS21403J , Working with Big Data**  
**Year & Sem : II/ IV**

**Part - A**

**(9Q x 2M = 18 Marks)**

**Answer all questions**

Q. No	Question	Marks	BL	CO	PO
1	Define sparkcontext.	2	1	5	3
2	Differentiate between rdds and data frames.	2	2	5	4
3	Explain the key feature of spark data frame over python data frame.	2	2	5	4
4	Explain the components of yarn.	2	1	3	3
5	Differentiate between column oriented data base with row oriented data base.	2	2	3	3
6	Describe ksqldb.	2	1	4	3
7	List the different cluster manager types supported by pyspark.	2	1	5	3
8	Write down the syntax for changing the type of column in data frame with example.	2	2	5	6
9	Describe confluent restproxy.	2	1	4	3

**Part-B**

**Answer all questions**

**2Q x 16M = 32 Marks**

10.	(A) Describe about pyspark with its features and also explain its architecture with advantages.	16	2	5	3
<b>(OR)</b>					
	(B) Discuss about data frame and also write down the method for creation of data frame and explain the use of groupBy function on it.	16	2	5	6
11.	(A) Describe apache kafka with its components and features and also explain the need of confluent kafka.	16	2	4	3
<b>(OR)</b>					
	(B) Describe the hadoop component mapreduce with its architecture and processing with example.	16	1	3	3

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**Academic Year: 2023-24 (EVEN) SET – B**

Test : Internal Examination II  
 Course Code & Title : UDS21404J Data Science for Enterprise  
 Year & Sem : II Year / VI Sem

Date & Session : 18/03/2024 & AN  
 Duration: 1 Hour 30 Minutes  
 Max. Marks: 50

**Part - A**

**(9Q x 2M = 18 Marks)**

**Answer all questions**

Q. No	Question	Marks	BL	CO	PO
1	Depict the concept of linear optimization in data science.	2	1	4	1
2	Write down the characteristics of flume.	2	6	4	2
3	Compose few lines on sqoop import and export.	2	6	4	3
4	Explain the concept of SPIN selling question.	2	1	3	1
5	Define the model of machine Learning.	2	1	3	3
6	Describe in relation the linear regression and non-linear regression.	2	2	3	3
7	Illustrate the introduction of hadoop in data science.	2	1	4	2
8	List the benefits of machine learning model analysis.	2	6	3	1
9	Describe "Mpsolver interface" in brief.	2	1	3	2

**Part B**

**2Q x 16M = 32 Marks**

**Answer all questions**

10.	(A) Illustrate the "Amazon web services" and "Amazon redshift" with its features.	16	1	4	3
	(OR)				
	(B) Describe the concept of apache sqoop and apache flume. Explain the working of apache sqoop and flume.	16	1	4	2
11.	(A) Contrast the 5Why's method in business and also explain its business benefits and challenges.	16	2	3	4
	(OR)				
	(B) Differentiate between Ridge and Lasso regression in data science.	16	4	3	3



**SUBJECT: PROFESSIONAL SKILLS**  
**CODE: UJK20401T**

1. Which of these is not a type of interview?  
a) Screening interview b) Stress interview c) Admonish interview d) Exit interview
2. Which kind of interview includes a process in which the employability of the job applicant is evaluated?  
a) Stress interview b) Screening interview c) Group interview d) Behavioural interview
3. In which of these interviews, insults are common?  
a) Screening interview b) Stress interview c) Behavioural interview d) Group interview
4. In which of these, more than one candidate is interviewed?  
a) The behavioural interview b) The stress interviews c) The group interviews d) The audition
5. When you are preparing for an oral \_\_\_\_\_ presentation, you should  
a) focus on the objectives of the presentation b) practice your speech in front of a mirror or friend  
c) do rehearsals to time your presentation of slides d) All of the above
6. Which of these is not advisable to make facts interesting?  
a) By narrating them as a story b) Through an anecdote  
c) With the help of a personal incident d) By stating them as points
7. What is the most important part of preparing for a presentation?  
a) Selecting your delivery style b) Deciding what you want to accomplish  
c) Preparing professional PowerPoint slides d) Selecting appropriate attire
8. What question(s) should you ask about your audience to determine your pattern, delivery style, and supporting material?  
a) What is the age, education, and experience of my audience? b) How can I earn my audience's respect?  
c) How will this topic appeal to this audience? d) All of the above.
9. The audience for a presentation consists of people who:  
a) vary in their level of information and purpose b) are uniform in their level of information and purpose  
c) are confused in their purpose d) are uninformed and lack a purpose
10. Which of these questions asks the candidate to talk about something?  
a) Open questions b) Closed questions c) Probing questions d) Loaded questions
11. Which of these is an open question?  
a) What are the advantages of a mixed economy? b) When did you complete your graduation?  
c) Do you know data processing? d) What was your major subject in college?
12. Which of these questions expect specific information?  
a) Open questions b) Closed questions c) Probing questions d) Reflective questions
13. \_\_\_\_\_ questions assess the candidate's response to a sensitive issue.  
a) Closed b) Probing c) Loaded d) Leading
14. The primary role of a moderator is to:  
a) Facilitate the smooth functioning of the GD b) Keep track of time.  
b) Announce the GD topic d) Interfere during the GD
15. Which of the following indicates the correct sequence of the elements of communication in the communication process?  
a) Sender, Receiver, Channel, Message, Feedback b) Receiver, Feedback, Sender, Message, Channel  
c) Sender, Channel, Message, feedback, d) Receiver Sender, Message, Channel, Receiver, Feedback
16. Which of the following is not 7 Cs of presentation?  
a) Clarity b) Conciseness c) Compromise d) All the above
17. It's said that people remember:  
a) What they hear more than what they see b) What they see more than what they hear  
c) What they see as well as what they hear d) None of the above
18. What is the purpose of a resume?  
a) It's the only way to get a job. b) It takes the place of an application and interview



c) a self-advertisement that shows how my skills, experience, and achievements match the requirements of the job I want. d) None

19. The world discuss has been derived from? (a) Greek root (b) Latin root (c) Both a & b (d) None

20. Discussion method is also called? (a) Greek method (b) Socratic method (c) a & b (d) none

21. There are ..... essential planning elements of discussion.

- (a) Choosing the discussion topic (b) Phrasing the discussion question  
(c) Outlining the topic and Planning discussion strategy, the beginning phase (d) All of above

22. Which of the following is characteristic of a chronological resume?

- a) Appropriate for experienced candidates b) Mentions most recent job or qualification first.  
d) c) appropriate when education and experience are unrelated to the job applied for d) Both a & b

23. What does STAR stand for?

- a) Situation, Task, Action and Result b) Situation, Task, Answer and Result  
b) Situation, Training, Action and Result d) Situation, Task, Audience and Result

24. According to the theory of behavioural interviewing what is the best predictor of future success?

- a) Good grades b) Past performance c) Positive attitude d) Good interpersonal skills

25. Reading out a presentation is: a) not allowed b) allowed c) helpful d) dull

26. When giving a presentation in front of an audience you should do all of the following except for\_\_?

- a) speak loud and clear b) provide handout if needed c) dress professionally d) look at your screen, not the audience

27. The key of success is\_\_ a) practice b) preparation c) effort d) both a and b

28. A good technique to get your audience's attention

- a) a statement made to surprise b) asking rhetorical questions c) asking an introduction to the audience  
d) none of these

29. A presentation is a kind of verbal communication in which a person shares fact-based information to an audience that is\_\_

- a) Specific b) Small c) Big d) Diverse

30. The presenter works as the

- a) Provider of the knowledge b) Knowledge c). Mean of the knowledge d) An advocate of the knowledge