

**IMSc. IT (DMVI) Sem.-6 Examination
DMVIBSC - 33**

Data Science Applications

Time : 2-30 Hours]

May-2025

[Max. Marks : 70

Instructions:

- **Figures to the right indicate Full Marks.**
- **Do not write anything on the question paper.**

Q-1(a) What are algorithms in machine learning? Draw chart of machine learning type. **(10)**

Q-1(b) Why is data science important? **(05)**

OR

Q-1(a) Difference between Classification v/s Regression. **(10)**

Q-1(b) Explain the Data Science is also used in Image Recognition. **(05)**

Q-2(a) What is machine learning predication? How is work? draw diagram. **(10)**

Q-2(b) Describe Data Science plays a key role in Financial Industries **(05)**

OR

Q-2(a) Explain Application of machine learning predication. **(10)**

Q-2(b) Explain Classification **(05)**

Q-3(a) Difference between Supervised v/s Unsupervised algorithm **(10)**

Q-3(b) Explain Reinforcement algorithms. **(05)**

OR

Q-3(a) Describe any two tools of data visulation **(10)**

Q-3(b) Explain KNN (K-nearest Neighbour) algorithm. **(05)**

Q-4(a) What is data visulation? Importance of data visulation **(10)**

Q-4(b) Write down about liner algorithm. **(05)**

OR

Q-4(a) List out any 5 Data Visualization Tools. **(10)**

Q-4(b) Explain Matplotlib visualizing library in Python. **(05)**

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(P.T.O)

Q-5 Attempt any ten out of twelve

- 1 What is Future of data science?
- 2 Who is data scientist?
- 3 Give name of any 2 E commerce website name
- 4 Full form of GBM
- 5 What is clustering?
- 6 SVM stands for
- 7 Full form of DDDM
- 8 ANN stands for...
- 9 Dimensionality reduction means.
- 10 What is clustering?
- 11 What is Data Cleaning?
- 12 What is semi supervised?

***** **BEST OF LUCK** *****