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VI Semester BCA Degree Examination, May/June - 2026**COMPUTER APPLICATIONS****Machine Learning****(NEP Scheme)****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:****Answer all sections.****SECTION - A****I. Answer any Four of the following questions. Each question carries 2 marks. (4×2=8)**

1. What is machine learning? Give an example.
2. Define labeled data.
3. What is feature Engineering?
4. What is classification? Give an example.
5. Define Linear Regression?
6. What is image segmentation?

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SRN Adarsh College
Chamarajpet,
Bengaluru-560018

SECTION - B**II. Answer any Four of the following questions. Each question carries 5 marks. (4×5=20)**

7. Explain machine learning life cycle.
8. Explain steps in data preparation process.
9. Difference between Regression and Classification.
10. Explain KNN algorithm for classification.
11. Explain clustering.
12. Explain how DBSCAN works.

[P.T.O.]



SECTION - C

III. Answer any Four of the following questions. Each question carries 8 marks. (4×8=32)

13. Explain applications of machine learning. (8)
14. Explain data visualization techniques. (8)
15. Explain decision tree algorithm. (8)
16. Explain working of K-means clustering. (8)
17. Write a note on :
 - a) Data cleaning. (4)
 - b) Regression. (4)
18. Explain hierarchical and fuzzy clustering. (8)