

Time: 3 HRS

Max. Marks: 80

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- N.B.:** 1) Question No.1 is **compulsory**.
2) Attempt any **three** from the remaining **five** questions.
3) Figures to the right indicate full marks

- Q.1 Write a short note on **any four** **20**
- a) Quantization
 - b) High pass filtering
 - c) Discrete Cosine Transform
 - d) Homomorphic filter.
- Q.2 a) Describe Camera working principles in image processing. **10**
- b) Explain histogram processing in detail. **10**
- Q.3 a) Explain Vehicle Number Plate Detection and Recognition techniques **10**
- b) Describe Vidicon and Digital Camera working principles Brightness. **10**
- Q.4 a) Explain Fri-Chen Filter in detail. **10**
- b) What is meant by wavelet based image compression? Explain. **10**
- Q.5 a) Explain Thresholding Region based segmentation Chain codes in detail. **10**
- b) Describe Object Detection using Correlation Principle. **10**
- Q.6 a) Discuss about classification of image compression schemes **10**
- b) Explain divide and conquer approach in detail. **10**
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