

Roll No. ....

Total No. of Questions : 08]

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**M.Tech.**

**DIGITAL IMAGE PROCESSING**

**SUBJECT CODE : CS - 502**

**Paper ID : [E0682]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours**

**Maximum Marks : 100**

**Instruction to Candidates:**

- 1) Attempt any **Five** questions.
- 2) All questions carry equal marks.

- Q1)* Discuss the techniques available for image processing?
- Q2)* What is an image compression system model? Draw the block diagram and explain functions of its components?
- Q3)* What is image degradation /restoration model? How is different type of noise handled?
- Q4)* How the color helps in better image analysis? Discuss various color models to specify a color in a standard way?
- Q5)* Why is image segmentation done? Discuss the techniques used in image segmentation?
- Q6)* What are wavelets? Discuss wavelets transformations in 1-dimension? How can they be used for image compression?
- Q7)* What is object recognition? Discuss object recognition by structural mapping?
- Q8)* What are the different levels of image processing? At which stage properties of the objects of an image can be talked about? What are the techniques to get these properties? Discuss any two techniques?

