

ADMISSION NUMBER

School of Computing Science and Engineering Bachelor of Technology in Computer Science and Engineering

Mid Term Examination - May 2024

Duration: 90 Minutes Max Marks: 50

Sem VI - R1UC618T - Digital Image Processing

General Instructions Answer to the specific question asked Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator

1)	Explain segmentation.	K2 (2)
2)	How will you represent digital image?	K1 (3)
3)	Explain the steps of digital image processing.	K2 (4)
4)	Write a short note on Image Compression models.	K2 (6)
5)	Read an Image and Convert it into gray scale Image by using Python or MATLAB.	K3 (6)
6)	Describe the basic elements of visual perception.	K3 (9)
7)	Write down the intensity range of gray scale image and Compare it with other types of images.	K4 (8)
8)	Compare and contrast the performance of watershed segmentation and graph-cut segmentation algorithms for segmenting medical images such as MRI scans.	K4 (12)
	OR	
	Read an Image, then use Mean filter, Max filter, Median filter using python or MATLAB.	K4 (12)