Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

Year and Program: 2021 and T.Y.B.Tech.	**School of Technology**	**Department: ECE**
Course Code: 308	**Course Title:** Digital Image Processing	**Semester :VII**
Day and Date: 10/06/2021	**End Semester Examination**	**Time :2 Hrs.** **Max Marks:50**

Instructions: 1) All Questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Answer/Solve the following (any Two)**			
	a)	Explain process of image formation in human eye.	8	L1	CO1
	b)	Illustrate the sampling and quantization.	8	L2	CO1
	c)	What is Histogram? Explain principle and process of Histogram Equalization.	8	L2	CO2
Q.2		**Answer/Solve the following (any two)**			
	a)	Explain slant transform with properties.	8	L2	CO3
	b)	Construct the matrix of Discrete Cosine Transform for N=4.	8	L3	CO3
	c)	Explain lossless predictive coding with block diagram.	8	L3	CO4
Q.3		**Answer/Solve the following (any two)**			
	a)	With suitable example explain opening & closing in morphological imageprocessing.	9	L5	CO5
	b)	Examine Hole filling with its algorithm.	9	L4	CO5
	c)	Make use of region growing for region segmentation with its algorithm.	9	L3	CO6

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