LMS QUIZ
VII-SEMESTER (CSE Core)
COMPUTER VISION (CSE_4031)

Duration: 20-minutes

Student name	Reg no.	Section	Semester

Q NO.	Question	Marks
Q1	A medical X-ray image appears too dark. Which gamma setting is most appropriate to make the details in darker regions more visible? A. $\gamma > 1$ B. $\gamma = 1$ C. None of the above D. **$\gamma < 1$**	**0.5M**
Q2	In contrast stretching, if $r_1 = s_1$ and $r_2 = s_2$, then which of the following is true? A. Transformation is not linear and produces no change B. Transformation is linear and produces changes in gray levels C. Transformation is not linear and produces changes in gray levels D. **Transformation is linear and produces no changes in gray levels**	**0.5M**
Q3	Image processing approaches operating directly on pixels of input image work directly in _____ A. Transform domain B. **Spatial domain** C. Inverse transformation D. None of the mentioned	**0.5M**
Q4.	Which of the following shows three basic types of functions used frequently for image enhancement? A. Linear, exponential, inverse law B. Linear, logarithmic, inverse law C. **Linear, logarithmic, power law** D. Power law, logarithmic, inverse law	**0.5M**
Q5	Consider a grayscale image quantized with 3 bits/pixel. The maximum number of intensity levels possible in the image is: A. **8** B. 16 C. Dependent on resolution/brightness D. Infinite	**0.5M**
Q6	The difference in intensity between the highest and the lowest intensity levels in an image is: A. Noise B. Saturation C. **Contrast** D. Brightness	**0.5M**
Q7	In computer vision, the process of extracting meaningful features (edges, corners, textures) from an image is called:	**0.5M**

	A. Image restoration B. Image segmentation C. **Feature extraction** D. Image compression	
Q8	Which of the following in an image can be removed by using a smoothing filter? A. Smooth transitions of gray levels B. **Sharp transitions of gray levels** C. Sharp transitions of brightness levels D. Smooth transitions of brightness levels	**0.5M**
Q9	The sum of all elements in the mask of the smoothing averaging spatial filter must be equal to _____ A. n columns B. m × n C. m rows D. **1**	**0.5M**
Q10	Consider an 8-bit grayscale image (0–255). Apply global thresholding T = 150 using the rule: $g(x,y) = 1$ if $f(x,y) > T$ $g(x,y) = 0$ if $f(x,y) \leq T$ Which pixel intensities will be assigned 0? A. Only 150 B. 151–255 C. **0–149 and 150** D. Only 0–149	**0.5M**

Questions.	1	2	3	4	5	6	7	8	9	10
Answers.	D	D	B	C	A	C	C	B	D	C