

	Question	Answers
1	How many optimum bits are required to store given image? (Consider uncompressed image)	75 bits
2	Which of the following statements is FALSE?	CCD sensors traditionally consume little power. CMOS, on the other hand, use a process that consumes lots of power
3	Which of the following color format is suitable for printing applications?	CMYK
4	Which of the following image format is most suitable for storing graphics?	GIF
5	Which of the following is Histogram of High Contrast Image?	Option (D)
6	Otsu's thresholding algorithm works of which of the following principle?	Maximizing the between class variance
7	Which 2D transformation is shown in given image?	Shearing
8	Which of the following factor does not affect the intrinsic parameters of a camera model?	Exposure
9	Which effect of digital camera is visible in the given image?	Halos produced by oversharpening
10	Which of the following is FALSE for vanishing points?	Perspective Projection never produces vanishing points.
11	Which of the following projection is not practicable for real world applications?	Orthographic Projection
12	Which projection relates with Pinhole camera model?	Perspective Projection
13	Which effect related to a digital camera is visible in the given image?	Vignetting
14	Using the Harris detector, if eigenvalues of structure tensor are large than it indicates _____.	corner
15	Which of the following statement is FALSE for SIFT (Scale Invariant Feature Transform)?	SIFT can handle changes in viewpoint upto 180 degree out of plane rotation.
16	Which filter is used in canny edge detection?	Derivative of Gaussian Filter
17	Hough transform is most suitable for _____.	Line Detection
18	Scoring function for Shi-Tomasi Detector based on eigen values of structure element is given by _____.	Option (B)
19	To segment given image using region splitting approach, _____ iterations are required and finally it will have _____ segments.	three, eight
20	Consider an 8 * 8 image, the gray levels range from 0 to 7, segmenting this image using the region growing technique produces the following result. What are the possible seed pixel and threshold value that produces this output?	Threshold = 2 ($T \leq 2$) and Seed pixel = 6
21	Which of the following is required by K-means clustering?	All of the mentioned
22	_____ are the components of object recognition system	Both Model database, hypothesizer and Feature detector, hypothesis verifier
23	Which of the following object recognition process is an error-prone process?	Bottom-up segmentation
24	_____ computes the output volume by computing dot product between all filters and image patch.	Convolution Layer

25	_____ is a pooling operation that selects the maximum element from the region of the feature map covered by the filter.	Max Pooling
26	Which if the following is TRUE for SURF?	Instead of using a different measure for selecting the location and scale of interest points , SURF uses the determinant of to find both.
27	Which of the following is a spatial operation for image enhancement?	Median Filtering
28	Which point operation for image enhancement is represented by the following equation and graph?	Clipping
29	Following masks are useful for which image enhancement operation?	sharpening
30	What does a histogram show?	A histogram is a graph in which values of observations are plotted on the horizontal axis, and the frequency with which each value occurs in the data set is plotted on the vertical axis.

