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(1_606384) - الرؤية الحاسوبية -

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Course management

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Question 1

Incorrect

Mark 0.00 out of 1.00

Which method detects keypoints and computes binary descriptors?

- a. HOG 
- b. Contours
- c. ORB
- d. Harris

Your answer is incorrect.

The correct answer is: ORB

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:10:42	Saved: HOG	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 2

Incorrect

Mark 0.00 out of 1.00

Which preprocessing step is MOST suitable for data augmentation?

- a. ROI cropping
- b. Grayscale conversion ✘
- c. Histogram equalization
- d. Flipping

Your answer is incorrect.

The correct answer is: Flipping

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:47:04	Saved: Grayscale conversion	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 3

Incorrect

Mark 0.00 out of 1.00

Which operation shrinks white regions?

- a. Closing
- b. Dilation ✘
- c. Opening
- d. Erosion

Your answer is incorrect.

The correct answer is: Erosion

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:47:04	Saved: Dilation	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 4

Correct

Mark 1.00 out of 1.00

Morphological operations are mainly applied to binary images.

- True ✓
- False

The correct answer is 'True'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:50:34	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 5

Correct

Mark 1.00 out of 1.00

Which smoothing filter best removes salt-and-pepper noise?

- a. Median ✓
- b. Gaussian
- c. Averaging
- d. Laplacian

Your answer is correct.

The correct answer is: Median

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:12:51	Saved: Median	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 6

Incorrect

Mark 0.00 out of 1.00

Course management

In the CV pipeline, Machine Learning is applied after:

- a. Feature extraction
- b. Visualization ✘
- c. Image capture
- d. Image saving

Your answer is incorrect.

The correct answer is: Feature extraction

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:51:59	Saved: Visualization	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 7

Incorrect

Mark 0.00 out of 1.00

Course management

Which operator detects edges in both directions at once?

- a. Canny
- b. Laplacian
- c. Gaussian ✘
- d. Sobel

Your answer is incorrect.

The correct answer is: Laplacian

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:12:19	Saved: Canny	Answer saved
3	21/01/26, 12:16:55	Saved: Gaussian	Answer saved
4	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 8

Correct

Mark 1.00 out of 1.00

In `cv2.resize(img, (200,200))`, the values represent:

- a. Scale factors
- b. Width then height ✓
- c. Height then width
- d. Rows then columns

Your answer is correct.

The correct answer is: Width then height

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:52:53	Saved: Width then height	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 9

Incorrect

Mark 0.00 out of 1.00

Sobel operator computes intensity changes separately along X and Y directions.

- True ✗
- False

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:50:47	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 10

Incorrect

Mark 0.00 out of 1.00

Brightness adjustment changes pixel intensity uniformly across the image.

- True
- False ⊗

The correct answer is 'True'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:53:33	Saved: False	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 11

Incorrect

Mark 0.00 out of 1.00

Histogram equalization is applied to:

- a. Grayscale images
- b. Binary images ⊗
- c. RGB images directly
- d. Color histograms only

Your answer is incorrect.

The correct answer is: Grayscale images

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:18:18	Saved: Binary images	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 12

Correct

Mark 1.00 out of 1.00

A histogram with most values near 0 indicates the image is:

- a. Dark ✓
- b. Overexposed
- c. Balanced
- d. Bright

Your answer is correct.

The correct answer is: Dark

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:53:33	Saved: Dark	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 13

Correct

Mark 1.00 out of 1.00

Histogram equalization may reduce image contrast if the original image already has a well-distributed range of intensity values

- True ✓
- False

The correct answer is 'True'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:55:26	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 14

Incorrect

Mark 0.00 out of 1.00

Course management

Which image representation stores values in the range [0, 1] by convention?

- a. Double image
- b. uint8 grayscale image
- c. RGB color image
- d. Binary image ⊗

Your answer is incorrect.

The correct answer is: Double image

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:55:26	Saved: Binary image	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 15

Partially correct

Mark 0.67 out of 1.00

What are the valid environments mentioned for OpenCV development?

(NOTE: This is an MAQ.)

- a. Jupyter Notebook
- b. PyCharm ✓
- c. Android Studio
- d. Google Colab ✓

Your answer is partially correct.

You have correctly selected 2.

The correct answers are: Jupyter Notebook, PyCharm, Google Colab

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:55:26	Saved: PyCharm ; Google Colab	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Partially correct

Question 16

Incorrect

Mark 0.00 out of 1.00

Sharpening filters reduce noise in images.

- True ✗
- False

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:58:06	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 17

Incorrect

Mark 0.00 out of 1.00

Which model is considered a simple baseline classifier?

- a. KNN
- b. Logistic Regression ✘
- c. CNN
- d. SVM

Your answer is incorrect.

The correct answer is: KNN

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 11:58:06	Saved: Logistic Regression	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 18

Correct

Mark 1.00 out of 1.00

Why is Canny edge detection preferred?

- a. It handles noise well ✔
- b. It produces thick edges
- c. It is fastest
- d. It works on color images

Your answer is correct.

The correct answer is: It handles noise well

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:17:31	Saved: It handles noise well	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 19

Incorrect

Mark 0.00 out of 1.00

Why do many algorithms prefer grayscale images?

- a. They increase image resolution
- b. They enhance contrast automatically ❌
- c. They contain more color information
- d. They reduce computation cost

Your answer is incorrect.

The correct answer is: They reduce computation cost

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:01:52	Saved: They enhance contrast automatically	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 20

Correct

Mark 1.00 out of 1.00

Which OpenCV feature makes it suitable for real-time applications?

- a. Built-in datasets
- b. Optimized algorithms ✔️
- c. GUI support
- d. Cloud integration

Your answer is correct.

The correct answer is: Optimized algorithms

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:01:52	Saved: Optimized algorithms	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question **21**

Partially correct

Mark 0.33 out of 1.00

Course management

Which are shape features?

(Note: this is an MAQ)

- a. Aspect ratio
- b. Area
- c. Histogram 
- d. Perimeter 

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: Area, Perimeter, Aspect ratio

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:17:51	Saved: Histogram ; Perimeter	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Partially correct

Question 22

Correct

Mark 1.00 out of 1.00

Why is Python commonly used with OpenCV?

- a. It requires no memory management
- b. It integrates well with NumPy arrays ✓
- c. It replaces C++ implementations
- d. It produces faster compiled code

Your answer is correct.

The correct answer is: It integrates well with NumPy arrays

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:03:22	Saved: It integrates well with NumPy arrays	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 23

Incorrect

Mark 0.00 out of 1.00

Google Colab requires manual installation of OpenCV before use.

- True ✗
- False

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:03:22	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 24

Correct

Mark 1.00 out of 1.00

Machine Learning models operate directly on raw pixels in this course.

- True
- False ✓

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:03:22	Saved: False	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 25

Correct

Mark 1.00 out of 1.00

HOG mainly captures:

- a. Edge orientation patterns ✓
- b. Pixel intensity values
- c. Texture noise
- d. Color distribution

Your answer is correct.

The correct answer is: Edge orientation patterns

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:04:02	Saved: Edge orientation patterns	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 26

Correct

Mark 1.00 out of 1.00

Thresholding converts a grayscale image into:

- a. Binary image ✓
- b. Double image
- c. Color image
- d. Edge image

Your answer is correct.

The correct answer is: Binary image

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:04:02	Saved: Binary image	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 27

Correct

Mark 1.00 out of 1.00

A binary image always occupies less memory than a grayscale image.

- True
- False ✓

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:04:02	Saved: False	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 28

Incorrect

Mark 0.00 out of 1.00

Which thresholding method automatically selects the best cutoff value?

- a. Adaptive
- b. Simple
- c. Binary ✘
- d. Otsu

Your answer is incorrect.

The correct answer is: Otsu

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:17:58	Saved: Binary	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 29

Incorrect

Mark 0.00 out of 1.00

Adaptive thresholding uses a single global threshold value.

- True ✘
- False

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:17:58	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 30

Incorrect

Mark 0.00 out of 1.00

Course management

Opening is defined as:

- a. Dilation → Erosion ⊗
- b. Erosion → Dilation
- c. Threshold → Blur
- d. Blur → Threshold

Your answer is incorrect.

The correct answer is: Erosion → Dilation

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:04:36	Saved: Dilation → Erosion	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 31

Partially correct

Mark 0.50 out of 1.00

Course management

Which operations help clean noisy binary images?

(Note: this is an MAQ)

- a. Sharpening 
- b. Erosion 
- c. Closing
- d. Opening

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: Erosion, Opening

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:18:09	Saved: Sharpening ; Erosion	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Partially correct

Question 32

Correct

Mark 1.00 out of 1.00

Which filter assigns the average of neighboring pixels?

- a. Averaging Blur ✓
- b. Gaussian Blur
- c. Median Blur
- d. Sharpening

Your answer is correct.

The correct answer is: Averaging Blur

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:05:51	Saved: Averaging Blur	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 33

Correct

Mark 1.00 out of 1.00

Which task belongs to the pre-processing stage of Computer Vision?

- a. Face recognition
- b. Decision-making
- c. Image thresholding ✓
- d. Object classification

Your answer is correct.

The correct answer is: Image thresholding

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:05:51	Saved: Image thresholding	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 34

Incorrect

Mark 0.00 out of 1.00

Course management

Which operation fills small black holes?

- a. Dilation
- b. Opening
- c. Erosion ✘
- d. Closing

Your answer is incorrect.

The correct answer is: Closing

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:07:45	Saved: Erosion	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 35

Partially correct

Mark 0.50 out of 1.00

Course management

Histogram equalization helps to:

(Note: this is an MAQ)

- a. Improve contrast
- b. Remove noise ✘
- c. Detect edges
- d. Spread pixel intensities ✔

Your answer is partially correct.

You have correctly selected 1.

The correct answers are: Improve contrast, Spread pixel intensities

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:07:45	Saved: Remove noise ; Spread pixel intensities	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Partially correct

Question 36

Correct

Mark 1.00 out of 1.00

An image of size 200 × 300 stored as a grayscale image contains how many intensity values?

- a. 180,000
- b. 200
- c. 300
- d. 60,000 ✓

Your answer is correct.

The correct answer is: 60,000

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:07:45	Saved: 60,000	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 37

Correct

Mark 1.00 out of 1.00

Why are features extracted from images?

- a. To store images efficiently
- b. To enhance color quality
- c. To reduce computational complexity ✓
- d. To increase image size

Your answer is correct.

The correct answer is: To reduce computational complexity

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:09:28	Saved: To reduce computational complexity	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 38

Incorrect

Mark 0.00 out of 1.00

Resizing an image to a very large size may cause loss of details.

- True 
- False

The correct answer is 'False'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:09:28	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Incorrect

Question 39

Correct

Mark 1.00 out of 1.00

Corners are considered stable image features.

- True 
- False

The correct answer is 'True'.

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:09:28	Saved: True	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Correct

Question 40

Partially correct

Mark 0.50 out of 1.00

Course management

Which operations are mainly used for visualization and debugging?

(NOTE: this is a MAQ)

- a. Saving images ❌
- b. Drawing rectangles
- c. Adding text ✅
- d. Thresholding ❌

Your answer is partially correct.

You have selected too many options.

The correct answers are: Drawing rectangles, Adding text

Response history

Step	Time	Action	State
1	21/01/26, 11:45:06	Started	Not yet answered
2	21/01/26, 12:10:27	Saved: Saving images ; Adding text ; Thresholding	Answer saved
3	21/01/26, 12:18:22	Attempt finished	Partially correct

◀ Announcements

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