Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

Next item →

1.	What is the primary objective of the YOLO v7 algorithm in object detection?	1/1 point
	O To enhance image resolution	
	O To classify images into predefined categories	
	To detect and localize objects within an image	
	O To segment images into different regions	
	 Correct Correct! YOLO v7 aims to detect and localize objects within an image efficiently. 	
2.	Which accuracy metric is used to evaluate the balance between precision and recall in object detection?	1/1 point
	Mean Average Precision	
	True Positive Rate	
	F1 Score	
	○ False Negative Rate	
	○ Correct Correct! The F1 Score is used to evaluate the balance between precision and recall in object detection.	
3.	Which of the following are object detection algorithms that can be compared with YOLO?	1/1 point
	AlexNet	
	ResNet	
	SSD (Single Shot MultiBox Detector)	
	 Correct Correct! SSD is an object detection algorithm that can be compared with YOLO. 	
	▼ Faster R-CNN	
	⊙ Correct Correct! Faster R-CNN is another object detection algorithm that can be compared with YOLO.	
	✓ Fast R-CNN	
	○ Correct Correct! Fast R-CNN is an object detection algorithm that can be compared with YOLO.	
4.	Which of the following steps are involved in implementing style transfer using the VGG19 network?	1/1 point
	Applying convolutional layers to the stylized image	
	Extracting feature maps from style and content images	
	 Correct Correct! Extracting feature maps is a fundamental step in style transfer. 	
	Balancing content and style weights during optimization	
	 Correct Correct! Balancing the weights is essential for achieving a desired blend of content and style. 	
	 Optimizing the input image to minimize content and style loss 	
	 Correct Correct! Optimization is crucial to blend content and style effectively. 	
	☐ Generating feature maps using a random noise image	
5.	Which concepts are central to the neural algorithm of artistic style?	1/1 point
	Activation functions	
	✓ Gram matrices	
	○ Correct	
	Correct! Gram matrices are used to calculate style loss by capturing the correlations between feature maps.	
	✓ Content loss	
	⊙ Correct	

	Correct! Content loss helps in preserving the structure of the content image.
□	Pooling layers Style loss
(Correct Yes! Style loss is crucial for capturing the stylistic elements of the style image.