Question Paper - Computer vision topic 5mcq questions and 8 (5 Mark) questions (Difficulty 1)

Okay, here are some exam-style questions on the topic of Computer Vision, with 5 multiple-choice questions and 8 subjective questions, at a difficulty level of 1 (very easy).

\*\*Multiple Choice Questions (Choose the best answer)\*\*

1. Q1. Which of the following is a fundamental task in computer vision?

* A. Data Mining
* B. \*\*Image Classification\*\*
* C. Web Development
* D. Database Management

1. Q2. What is the purpose of image segmentation?

* A. To compress images
* B. To enhance image quality
* C. \*\*To divide an image into multiple regions or segments\*\*
* D. To convert images to text

1. Q3. Which of the following is a common feature used in object detection?

* A. Sound waves
* B. \*\*Edges\*\*
* C. Temperature
* D. Smell

1. Q4. What does the acronym OCR stand for?

* A. Online Character Recognition
* B. Object Character Rendering
* C. \*\*Optical Character Recognition\*\*
* D. Optimal Code Reader

1. Q5. Which of these is a basic operation in image processing?

* A. Sending emails
* B. \*\*Filtering\*\*
* C. Writing reports
* D. Playing video games

\*\*Subjective Questions (Answer each question in approximately 5 sentences)\*\*

1. Q1. Briefly explain what computer vision is and provide a simple real-world example of its application.
2. Q2. What is the difference between image classification and object detection? Provide a scenario where object detection would be more useful than image classification.
3. Q3. Describe the purpose of edge detection in computer vision. Why is it important for tasks like object recognition?
4. Q4. Explain the concept of image filtering. Give an example of a simple filter and its effect on an image.
5. Q5. What is image segmentation and why is it a critical step in many computer vision applications?
6. Q6. What is feature extraction in computer vision and why is it important? Give a simple example of a feature.
7. Q7. Explain what Optical Character Recognition (OCR) is and give an example of a simple real-world application.
8. Q8. Describe what image enhancement is and explain why it might be necessary for certain computer vision tasks.