**Introduction:**

* Briefly introduce biometric pattern recognition.
* Explain the chosen biometric modality (e.g., face, fingerprint, iris).
* State the importance of pattern recognition in biometrics.
* Highlight the specific research topic you'll be focusing on within that modality (e.g., novel feature extraction methods for iris recognition).

**Conclusion:**

* Briefly summarize the key findings of your literature review.
* Reiterate the significance of the chosen research topic within biometrics.
* Mention any limitations of the reviewed studies and their potential implications.
* Avoid introducing new information; focus on closing the discussion.

**Literature Review (20 Marks):**

**Data Collection:**

* Discuss the types of data used in the reviewed studies (e.g., public datasets, custom-collected data).
* Analyze the data acquisition methods and potential biases/limitations.
* Evaluate the data pre-processing techniques employed.
* Feature Extraction/Selection:
* Describe the different feature extraction/selection methods used in the reviewed studies.
* Compare and contrast the effectiveness of different approaches.
* Discuss the impact of feature selection on recognition accuracy and computational cost.

**Classifier/s:**

* Describe the various classifier algorithms employed in the reviewed studies.
* Compare and contrast the performance of different classifiers (e.g., accuracy, robustness, computational efficiency).
* Analyze the impact of training data size and quality on classifier performance.

**System Evaluation:**

* Discuss the different evaluation metrics used in the reviewed studies (e.g., accuracy, precision, recall, AUC).
* Analyze the limitations of each metric and the importance of considering them in conjunction.
* Evaluate the generalizability of the reported results to different settings and scenarios.

Discussion (10 Marks):

* Analyze how data collection, feature extraction/selection, and classifier choice impact the overall system performance.
* Discuss the trade-offs between accuracy, robustness, and computational efficiency in different scenarios.
* Identify emerging trends and challenges in the chosen research area of biometric pattern recognition.
* Suggest potential directions for future research based on the gaps identified in the reviewed literature.