Human-Computer Interaction Overview	
Your Name:	
1. Which cognitive psychology concept directly underpins the usability principle of "recognition rather than recall" in interface design?	
A. Short-term (working) memory limitations	
☐ B. Long-term memory, particularly its retrieval efficiency	
C. Information processing model, focusing on motor output	
☐ D. Sensory memory, related to initial data storage	
product launch. A. True	
☐ B. False	
3. Briefly explain the primary goal of Human-Computer Interaction (HCI).	
4. In Nielsen's Usability Heuristics, the principle of "User control and freedom" emphasizes the need for a clearly marked "emergency" to allow users to leave unwanted states.	

5. Match the interaction design paradigm with its defining characteristic: 1. A. Seamlessly integrated, invisible Augmented environmental devices reality 2. Batch B. Direct manipulation of graphical objects with a pointing device processing 3. Graphical C. Overlays digital information onto User the real world Interface 4. D. Users submitted jobs and received Ubiquitous output later computing 6. Which of the following is an example of a user-based evaluation method? A. Usability Testing B. Heuristic Evaluation C. Cognitive Walkthrough ☐ D. GOMS analysis 7. Aesthetic and minimalist design in a user interface suggests including all possible information to prevent users from needing to

search for it.

A. True

B. False

9. Cognitive psychology helps designers reduce the cognitive on users, leading to more intuitive and understandable interfaces.			
10. Match the Nielsen's Usability Heuristic with its corresponding description:			
1. Consistency and standards	A. Ensuring similar actions have similar meanings		
2. Help users recognize, diagnose, and	B. Providing plain language error messages with solutions		
recover from errors			
3. Error prevention	C. Designing to stop problems from occurring initially		
4. Visibility of	D. Providing appropriate feedback within reasonable time		

11. Which aspect of cognitive psychology focuses on how users interpret visual, auditory, and tactile information in an interface?		
☐ A. Attention		
☐ B. Problem-solving		
☐ C. Memory		
☐ D. Perception		
12. The core principle of User-Centered Design (UCD) is that aesthetic appeal should always prioritize user needs.		
☐ A. True		
☐ B. False		
13. Name two types of user-based evaluation methods.		
14. The concept of user refers to how users form an understanding of how a system works, which designers aim to align with for intuition.		

15. Match the HCI field with its contribution to the discipline:				
1. Computer science	A. Shapes the aesthetics and user experience of interfaces			
2. Design	B. Focuses on optimizing human well- being and system performance			
3. Human factors engineering	C. Provides the technological capabilities and system architecture			
4. Cognitive psychology	D. Offers insights into human mental processes			
16. What is the primary benefit of accelerators, such as keyboard shortcuts, in an interface design?				
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☐ B. They improve consistency with real-world metaphors.				
☐ C. They enhance flexibility and efficiency for expert users.				
D. They reduce system status visibility.				
 17. According to Nielsen's heuristics, matching the system to the real world means using highly technical, system-oriented terms for accuracy. A. True B. False 				
18. What is 'usability' in the context of Human-Computer Interaction?				

19. A walkthrough is an expert-based evaluation method where experts simulate a user's step-by-step interaction to assess learnability.	
interaction to assess learnability.	
20. The user-centered design stage that involves understanding who the users are, their tasks, and the environment is known as which of the following?	
A. Summative evaluation	
☐ B. Requirement specification	
☐ C. Design solutions	
☐ D. Context of use analysis	