

HCI E-Exam Summer 2021, Group 1:

33 questions, 90 minutes, more than enough time, take paper and pencil for calculations, no calculator

1. Calculation Wickens Model same as in exercise
2. Estimation Steering Law based on a sketch
3. Multiple Choice regarding Usability, Utility, Likeability
4. Assign Likeability, Flexibility and Robustness to definitions and principles (Alan Dix)
5. Name inventions from Bush, Sutherland, Engelbart
6. Human Processor Model assign all descriptions to figure
7. Multiple Choice: Stroop effect
8. Multiple Choice: Gestalt laws based on example
9. Assigning Gestalt laws to examples from script
10. Multiple Choice: Affordance from paper, exercise
11. Name Types of Design in diagram
12. Multiple Choice: Golden rules, includes background knowledge of Closure
13. Multiple Choice: Consistency based on apple UI, example from Discussion
14. Assign Slips to description
15. correct formular Fitt's Law, what are ID, a and b, how to get a and b from an experiment (exercise)
16. Multiple Choice: Fitt's Law and steering law questions, linear vs. circular pop-up menu, was in discussion
17. Fill in gaps Steering Law
18. Example GOMS law: Buying a train ticket, Multiple choice questions
19. Example comparison two software systems and results visualized as boxplots, which experimental design was used, which one is better
20. Multiple Choice: Example of experiment, evaluation using the Median, was in Discussion
21. Multiple Choice: Bonferroni correction
22. Multiple Choice: Focus Groups setup
23. Multiple Choice: Diary study
24. Match horizontal and vertical prototype
25. Multiple Choice: Example system, different prototypes and why they should be used → which ones are reasonable
26. Multiple Choice: elderly people do not hear sirens, why and connection to sound pressure and frequencies, diagram humans hearing
27. Example smart phone with two buttons → which Card 91 is correct
28. Assign to Real Environment, Virtual Environment, Mixed Reality
29. Example Home Office Headset for performing interactions in household and working at same time → Multiple Choice: what is correct, e.g. AV can be used to drive a car or AR is extend virtuality with reality
30. Multiple Choice: Resistive sensing
31. Multiple Choice: Stereoscopy and HMD, can one-eyed people see 3D
32. ??
33. ??