

※ 考生請注意：本試題不可使用計算機。請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

Short-answer/Long-answer questions (Total 100%)

1. Describe the Human Factors (HFs) considerations when designing medical products. (10%)
2. From the HFs perspective, what must be taken into account when designing or using symbols and icons for blind people? (10%)
3. What are the disadvantages of using sound for feedback? (10%)
4. What is Fitts' Law and where does it apply? Give the equation and explain all terms. (10%)
5. What are two common forms of errors? Describe where each one results from. Describe their differences. (15%)
6. Explain the mechanism of olfactory sense. List one advantage and one disadvantage of olfactory displays. (15%)
7. In what situations will a digital display be preferred when compared with an analog display? (10%)
8. Consider the design of a usable automated teller bank machine (ATM). For this design, use your HFs knowledge to:
 - Identify three important user characteristics. (6%)
 - Plan a task analysis for a user to determine the account balance. (6%)
 - Identify two cultural constraint which will affect the design. (4%)
 - Develop and define two usability goals for testing. (4%)