※ 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。

（可用中文或英文回答）

I. **Essay Questions on Digital Media (40%)**

In an aging society, digital media play important roles in elderly cares.

1. Videos, images, and texts are key types of digital media used in our daily life. Please *describe, compare* and *contrast* the characteristics of these three types of media in terms of handling the *data, information* and *knowledge* in our daily life. (15%)

2. Identify two major tasks in elderly cares. Describe the content and context of these two tasks. Discuss the advantages and disadvantages of using videos, images, and texts in the service of these two tasks. (25%)

II. **Design Question on Interaction Design (60%)**

Design for Disaster

Disasters such as, earthquakes, hurricanes, floods, famines and wars cause destruction and suffering to humankind. With what kind of solutions and developments can designers contribute to the prevention, relief and recovery from the effects of disasters?

Identify a region in Taiwan that is prone to natural disasters. Imagine a scenario of recurring disasters. Design a disaster management service that uses techniques of crowd computing. Your design should include the following parts:

1. The service: describe the content of your service design. (20%)

2. System design: describe in terms of required technology and hardware/software services. (10%)

3. Information architecture: describe various types of required information contained in the system and how these different types of information relate to one another. (10%)

4. Interaction design: describe the interactivity between the users, various types of information, and the service context. (10%)

5. User interface design: identify a device in the service; describe the user interface in terms of visual elements, screen layouts and operation controls. (10%)