

**Marks**

**Question 28 — Multimedia Systems (20 marks)**

Use a SEPARATE writing booklet.

- (a) (i) Distinguish between LCD screens and CRT monitors. **3**
- (ii) Distinguish between path-based and cell-based animation. **3**

- (b) Sunny Ishida is creating a website with highlights of Australia's success at the 2002 Winter Olympics in Salt Lake City.

He has identified three events that he wants to feature:

- Steven Bradbury's gold medal in the 1000-metre short-track speed skating;
- Alisa Camplin's gold medal in the aerial skiing event;
- Jacqui Cooper's recovery from a fall during training.

He has obtained permission from each of his heroes to use video footage, an audio interview, several photos and a brief biography.

- (i) Draw a storyboard for this website using good design principles. **5**  
Clearly label the major elements for each page.
- (ii) One of Sunny's photos is of Jacqui Cooper at the World Championships. **3**  
The photo has 16 colours and is 600 pixels by 400 pixels.

Demonstrate how he could calculate the file size in kilobytes for this photo. Explain what each number in the calculation represents.

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**Marks**

Question 28 (continued)

- (c) The website for a newspaper [www.regionalclassified.com.au](http://www.regionalclassified.com.au) displays advertisements for individuals and companies. It targets country areas of New South Wales. **6**

Advertisements can be submitted by fax, email or post. They may contain contact details for the seller, item descriptions, photos and other graphics. The advertisements are charged by the number of words, with photos and graphics attracting an additional fee.

Interested buyers need to contact the seller direct because the newspaper does not process sales. Advertisements are displayed for 28 days. They are automatically removed at the end of that time, or at the request of the advertiser.

Advertisements are arranged into categories to make finding an item easy. Search facilities are available to search all the advertisements on the website.

Many users of the website access the internet using a dial-up connection and long-distance phone calls to their Internet Service Provider.

Describe and analyse the system in terms of the information processes of:

- collecting;
- organising;
- displaying;

with particular emphasis on the process of displaying.

**End of paper**