

Attempt ALL questions

Total marks — 70

1. A public building that was constructed in the 1950s is to be modernised. The original drawings were produced manually in paper format. The architect has requested that the manual drawings be converted to a digital format and sent electronically.

The conversion methods being considered are: scanning the original drawings or reproducing the drawings using CAD software.

- (a) (i) Compare the two methods in terms of their suitability for this task.

4

1. (a) (continued)

- (ii) Explain two possible disadvantages that may be encountered when two different people or companies work together on the same project using CAD.

2

CAD simulation could be used to test aspects of the design of the building.

- (b) Identify an aspect of the design that could be tested through a CAD simulation.

1

- (c) Identify an advantage of a “paperless office” to an architectural business.

1