

## COMPUTER SCIENCE TRIPOS Part IA – 2017 – Paper 3

### 3 Graphics (RKM)

Consider display technologies for hand-held devices.

(a) Explain the principles of operation of each of the following.

*Note:* You may illustrate your answers with a diagram.

(i) Liquid crystal displays [5 marks]

(ii) Electrophoretic (electronic paper) displays [5 marks]

(b) Compare and contrast their characteristics. [6 marks]

(c) Explain how liquid crystal and electrophoretic displays can show coloured images. [4 marks]