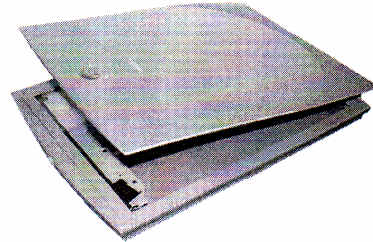


Question 8. This question is about ICT, CAD/CAM, Systems and Processes. It is worth a total of 15 marks.

(a)

A flat bed scanner, as shown, is a commonly used tool in Graphic Products.

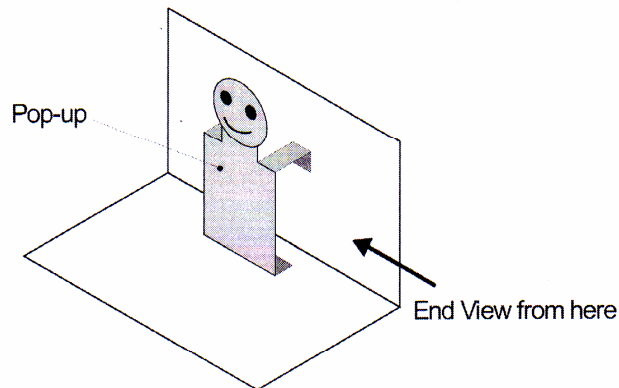


Complete the sentences about a scanner using the correct words from the list below. [4]

INPUT IMAGES OUTPUT 2D SCALE RESOLUTION COLOUR

- (i) A flat bed scanner is a computer INPUT device.
- (ii) It is used to copy IMAGES into a computer.
- (iii) It can SCALE an image when it copies it.
- (iv) It is usually used to copy 2D objects but can be used to copy 3D objects too.

(b) An outline design for a pop-up greeting card is shown.



(i) State the type of drawing used in this illustration.

..... ISOMETRIC (OR PICTORIAL)

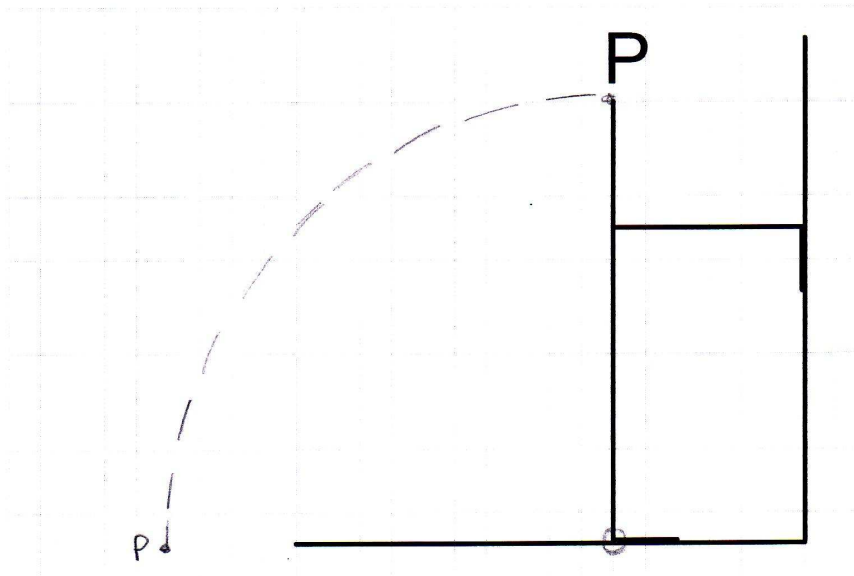
[1]

- (ii) Use the end view of the pop-up card drawn below to geometrically plot the locus of Point P as the card is closed.

Remember to label the final position of Point P.

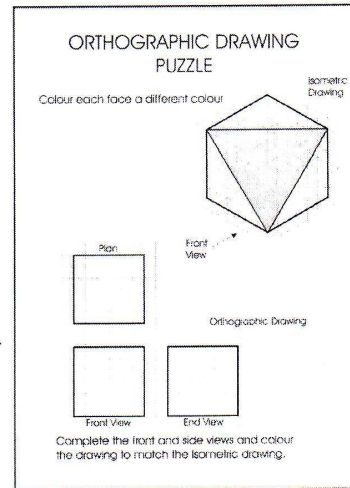
[3]

END VIEW



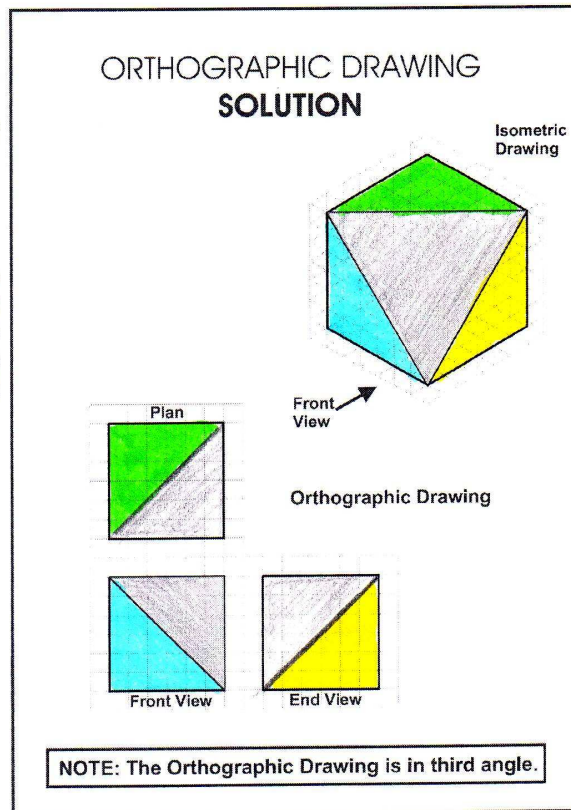
- (c) A puzzles book is about Orthographic Drawing. Solutions to the puzzles will be provided.

The Orthographic Drawing puzzle page is shown alongside.

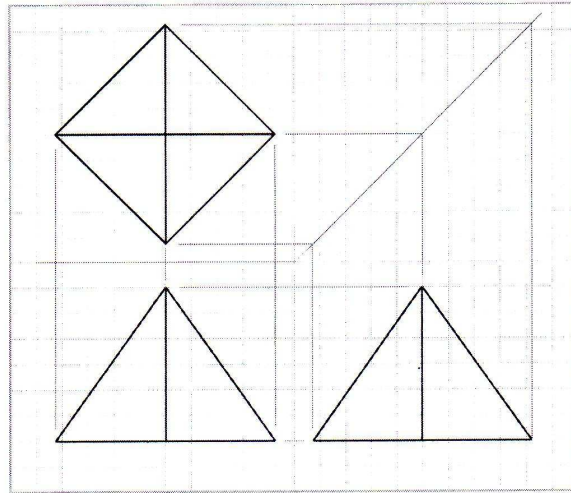


Complete the solution sheet below.

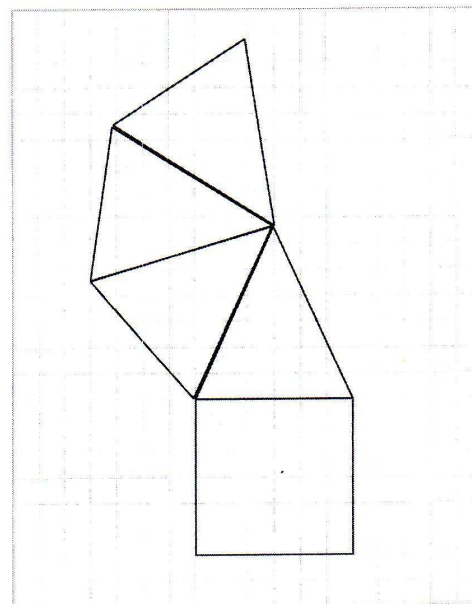
- (i) Complete the drawing of the Plan and End views. [2]
- (ii) Colour each face of the Isometric Drawing using a different colour, then colour the Orthographic drawing so that each face matches. [2]



- (d) A drawing of a small card box is shown below.
The drawing is in orthographic projection.



A net for the box drawn above has been drawn alongside.



The triangular side of the box looks a different size in the orthographic drawing and the net. Explain why this is so.

[3]

..... ORTHOGRAPHIC DRAWING DOES NOT GIVE TRUE
..... SHAPE OF SIDE BUT NET DOES AS IT IS
..... CONSTRUCTED TO DO SO
.....