

Ouestion 3.

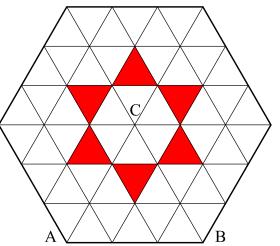
The figure on the right shows a tessellation made up of equilateral triangles. The boundary of the tessellated area consists of a regular hexagon. Six of the triangles are coloured to create the final pattern.

On the given base line AB below:

- a. Construct an equilateral triangle ABC.
- b. Use centre C to draw a circle touching corners A and B.
- c. Inside the circle, construct a regular hexagon.
- d. Divide the base line AB geometrically into three equal parts.
- e. Use the appropriate set square to complete the given pattern.
- f. Colour the triangles shown shaded.

Note:

- Leave all construction lines visible.
- Marks will be awarded for accuracy.
 (12 marks)



Question 4. Three ortho

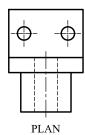
Three orthographic views of a mild steel component are given on the right.
In the space provided below:

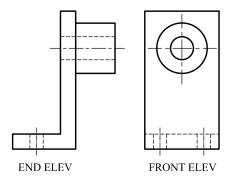
- a. Draw **two** freehand, well proportioned, pictorial sketches of the component: one sketch as seen from the front and the other as seen from the back.
- b. Shade **one** of the drawings and give it a shiny mild steel texture.

Note: The scale of the sketches is to be approximately 2:1.

(12 marks)







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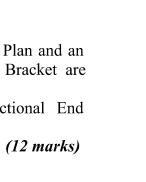
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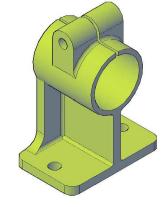
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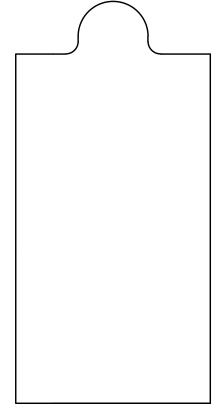
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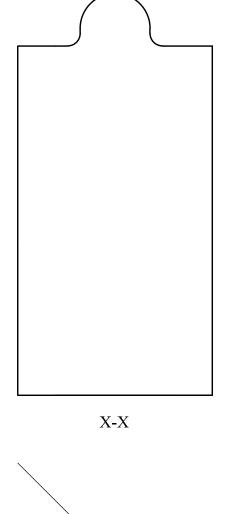
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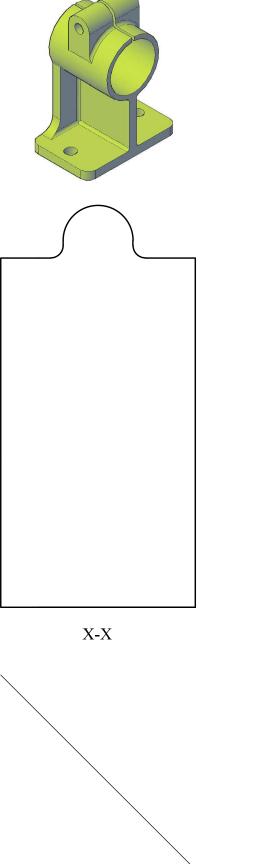
Question 5. A pictorial illustration, a Front Elevation, a Plan and an incomplete End Elevation of a Cast Iron Bracket are given. In the space provided complete the Sectional End Elevation X-X.

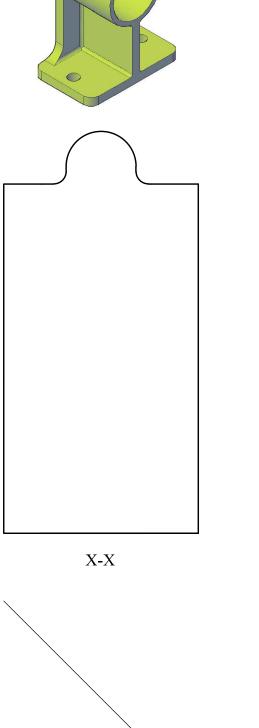














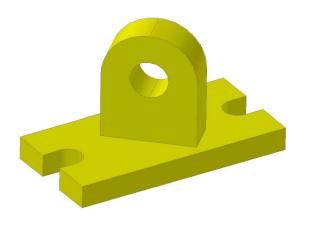
A pictorial illustration, a plan view and an auxiliary view of a lifting eye bracket are given.

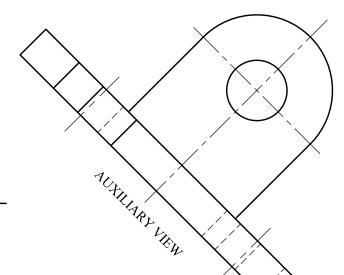
In the space provided, project a Front Elevation of the bracket.

Notes:

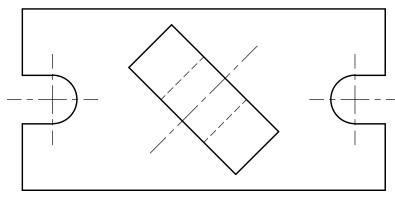
- Leave all construction lines visible.
- The base line of the Front Elevation is given.
- Include hidden detail.

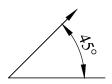
(15 marks)



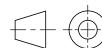












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