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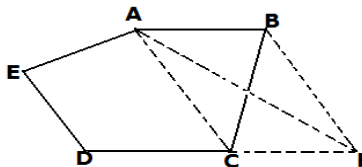
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Section A MCQ – 1 Mark Each

- Q.1 Two figures are called congruent, if they have
 (a) Same size (b) same shape (c) same area
 (d) same shape and size
- Q.2 The figure obtained by joining the mid-points of the adjacent sides of a rectangle of sides 4 and 3 cm, is
 (a) a rectangle of area 12 cm^2 (b) a square of area 120 cm^2
 (c) a trapezium of area 12 cm^2 (d) a rhombus of area 6 cm^2
- Q.3 Given $\text{ar}(\triangle ABC) = 32 \text{ cm}^2$, AD is median of $\triangle ABE$ and BE is the median of $\triangle ABD$. If Bo is median of $\triangle ABE$, then $\text{ar}(\triangle BOE)$ is
 (a) 16 cm^2 (b) 4 cm^2 (c) 2 cm^2 (d) 1 cm^2

Section B – 2 Mark Each

- Q.4 Show that a median of a triangle of a triangle divides it into two triangles of equal area.
- Q.5 In figure ABCDE is a pentagon. A line through B parallel to AC meets DC produced at F. Show that (i) $\text{ar}(\triangle ACB) = \text{ar}(\triangle ACF)$ (ii) $\text{ar}(AEDF) = \text{ar}(ABCDE)$



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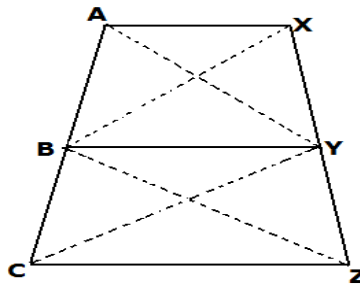
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Section C – 3 Mark Each

- Q.6 The area of a trapezium is half the product of its height and the sum of parallel sides. Justify
- Q.7 In a $\triangle ABC$, x is the mid-point of median AD . Show that $\text{ar}(\triangle BXD) = \frac{1}{4} \text{ar}(\triangle ABC)$
- Q.8 Show that the area of a rhombus is half the product of the lengths of its diagonals.

Section D – 4 Mark Each

- Q.9 In Figure, $AX \parallel BY \parallel CZ$. Prove that $\text{ar}(\triangle AYC) = \text{ar}(\triangle XYZ)$.



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