## Sample Paper 7: Paper 2

## Question 6 (25 marks)

Question 6 (a) (i)
$|\angle D E A|=|\angle B E C|$ (Vertically opposite)
$|\angle E A D|=|\angle C B E|$ (Standing on same arc)
$\therefore|\angle A D E|=|\angle B C E|$
Question 6 (a) (ii)
$\frac{|A E|}{|D E|}=\frac{|B E|}{|E C|}$

$\therefore|A E||E C|=|B E||D E|$
Question 6A(b)
$|F J||J H|=|I J||J G|$
$3 \times 4=(r-2)(r+2)$
$12=r^{2}-4$
$16=r^{2}$
$\therefore r=4$


