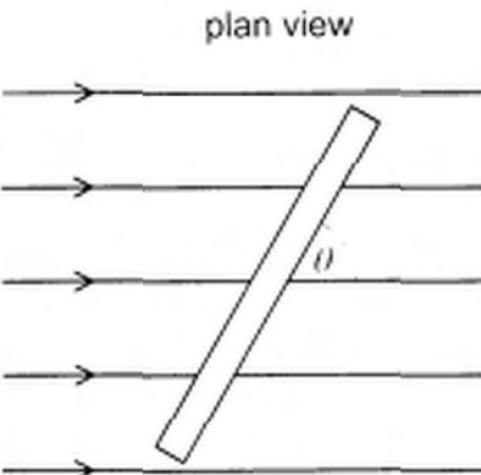
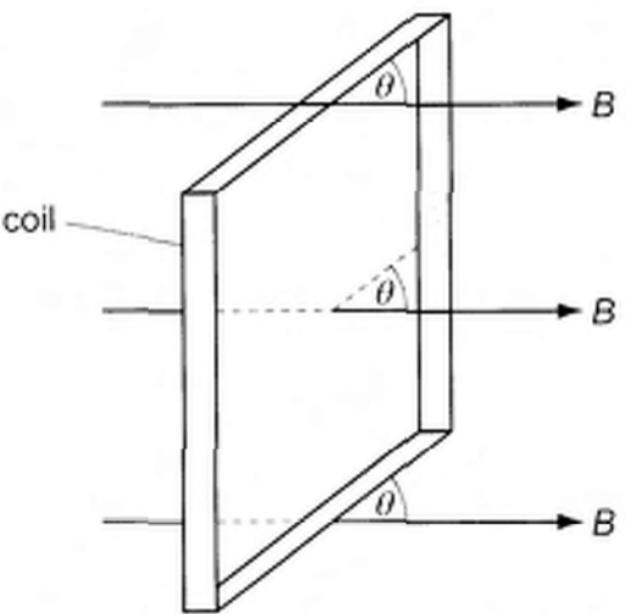


31 A magnetic field of uniform flux density  $B$  is at an angle  $\theta$  to the plane of a coil as shown.



The coil has  $N$  turns and the area of the coil is  $A$ .

What is the magnetic flux linkage of the coil?

A  $BA \cos \theta$

B  $BA \sin \theta$

C  $BNA \cos \theta$

D  $BNA \sin \theta$