

Sample question bank questions having images in their answers

1. Area of useful cross section of the steel wire rope having diameter d is given by:

A) $\frac{\pi}{4}d^2$

B) $0.4\frac{\pi}{4}d^2$

C) $0.5\frac{\pi}{4}d^2$

D) $0.75\frac{\pi}{4}d^2$

Answer: B

2. The net positive suction head (NPSH) which represents the suction head at the impeller eye is given by:

A) $\frac{P_a - P_v}{w} - h_s - h_{fs}$

B) $\frac{P_a - P_v}{w} - h_s + h_{fs}$

C) $\frac{P_a - P_v}{w} + h_s + h_{fs}$

D) $\frac{P_a - P_v}{w} + h_s - h_{fs}$

Answer: A

3. The head developed by centrifugal pump is:

A) $H = \frac{V_{w2}u_2}{g}$

B) $H = \frac{V_{w1}u_1}{g}$

C) $H = \frac{V_{w2}u_2 + V_{w1}u_1}{g}$

D) $H = \frac{V_{w1}u_1 + V_{w1}u_2}{g}$

Answer : A