Q: A fast centrifugal pump impeller has wallet of the following?

[UPPCL JE 2015]

A: Radial blades

B: Backwards facing bladesC: Propeller types bladesD: Forwards facing blades

Q: Which of the following is used to measured the discharge?

[UPPCL JE 2015]

A: Current meter

B: Hotwire anemometer

C: Pitot tube

D: Venturimeter

**Q**: If a vertical circular plate of diameter 'd' submerged in water, what is the depth of centre of pressure from the water surface?

[UPPCL JE 2016]

A: d/2 B: 3d/5 C: 5d/8 D: 4d/7

Q: Capillary action is due to:

[UPPCL JE 2016]

A: Adhesion B: Cohesion

C: Adhesion and cohesion both

D: Neither adhesion and cohesion both

Q: Euler Critical buckling load for a prismatic column of length L, flexural rigidity EI, hinged at both

[UPPCL AE 2018]

 $\begin{array}{l} \textbf{A}: \frac{2\pi^2 EI}{L^2} \\ \textbf{B}: \frac{4\pi^2 EI}{L^2} \\ \textbf{C}: \frac{\pi^2 EI}{4L^2} \\ \textbf{D}: \frac{\pi^2 EI}{L^2} \end{array}$ 

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Q: The point of contraflexure in a beam is that location where\_\_\_\_:

[UPPCL AE 2018]

A: The shear force change signB: The deflection changes sign

C: The slope of the elastic curve change sign

D: The bending moment change sing

Q: With respect to temperature, viscosity of liquid:

[UPPCL JE 2016]

A: Increase
B: Decrease

C: May increase or decrease

D: Remains unchanged

**Q**: When the flow is such that one static head is consumed in pipe friction, the delivery by the given pipeline will be:-

[UPPCL JE 2016]

A: Zero B: Unity

C : Same as always

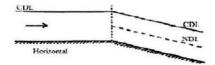
D: Maximum

**Q**: For laminar flow through a circular pipe, the ratio of maximum velocity to the average velocity is\_\_\_\_

[UPPCL AE 2018]

- A: 2.0
- B: 2.5
- **C:** 1.5
- D: 1.25

**Q**: The figure below shows gradually varied flow in an open channel with a break in bed slope:



The types surface profiles occurring from left to right are:

[UPPCL JE 2015]

- $\mathsf{A}:H_2.\,S_2$
- $B: H_3. M_2$
- $C: H_2. M_2$
- $D: H_3. S_3$

Q: The primary mode of force transmission is HSFG bolts is\_\_\_\_\_:

[UPPCL AE 2018]

- A: Friction
- **B**: Shearing
- C: Bearing
- D: Tension

Q: At an internal hinge :

[UPPCL AE 2018]

A: Slope is always discontinuous

B: Deflection is always discontinuous

C: Bending moment is always discontinuous

D: Shear force is always discontinuous

Q: If area of the catchment is 62.5 sq.mm and axial length of the catchment is 10 mm, the form factor will be:-

[UPPCL JE 2016]

A: 0.625

**B**: 0.31

C: 6.25

D:1

Q: Where does the Mach number finds its maximum significance?

[UPPCL JE 2016]

A: Flow in closed conduit pipe

B: In cavitation studies

C: Where did compressibility is important

**D**: In capillary studies.

Q: If both ends of a 20 m long column are fixed, for Euler's load calculations, its effective length is taken to be:-

YouTube CHAN

[UPPCL JE 2016]

A: 20 m

B: 40 m

C:10 m

 $D:20\sqrt{2}$ 

## EVEREXAM