

## ⇒ Universal Human Values

### SECTIONS

Q2

Ans

S.No	Description	open channel flow	Pipe flow
1.	Pressure	Liquid flowing through open channel is always at atmospheric pressure.	Liquid flowing through pipe is always at a higher pressure than atmospheric pressure.
2.	slope	for open channel flow liquid flows under gravity, thus slope has to be provided	The pipe flow does not require slope



3. Hydraulic gradient line. Hydraulic gradient line does not coincide with water surface.

4. Shape of Channel. The shape of open channel may be circular, trapezoidal, rectangular, triangular, etc. Generally the shape of a pipe is circular.

5. Surface roughness. Hydraulic roughness depends upon channel perimeter, depth of flow. ~~Roughness~~ Roughness coefficient depends upon material of pipe.