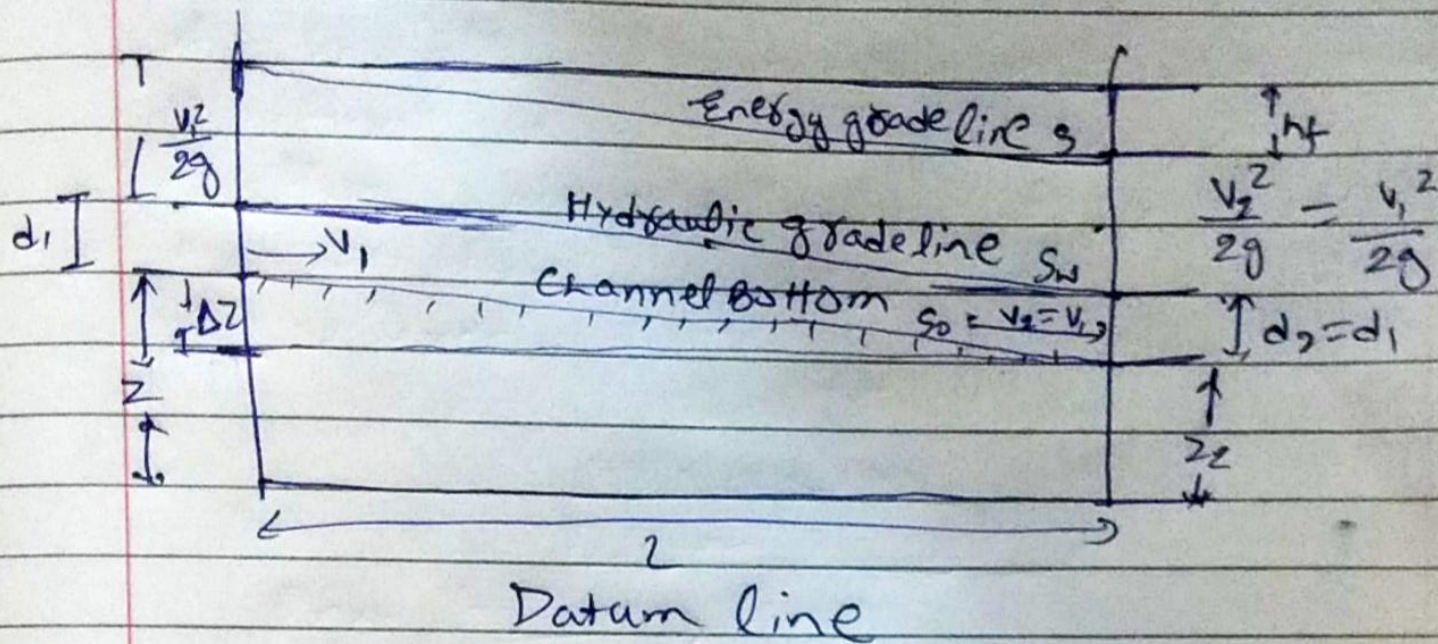


Section-5

Ans-2

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.	Velocity	For open channel flow maximum velocity occurs little below the free surface.	For pipe flow maximum velocity occurs at centre of pipe.
4.	Hydraulic gradient line.	Hydraulic gradient line coincides with water surface.	Hydraulic gradient line does not coincide with water surface.
5.	Shape of Channel.	The shape of open channel may be circular, trapezoidal, rectangular etc.	Generally the shape of a pipe is circular.

for open channel flow



Hydraulic grade line :- It is used to the designed in determining the acceptability of a proposed evaluation of an existing drainage system by establishing the energy

Energy grade line :- It represents the total available energy in system.