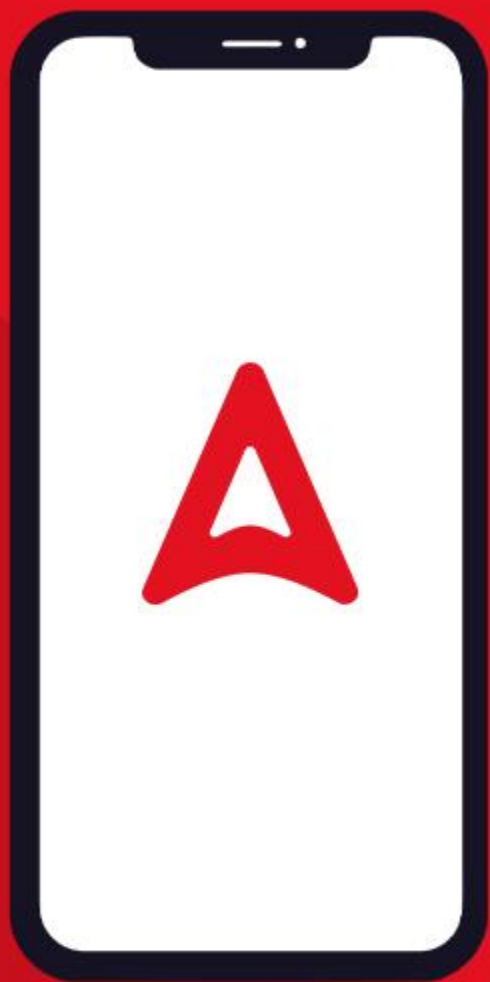


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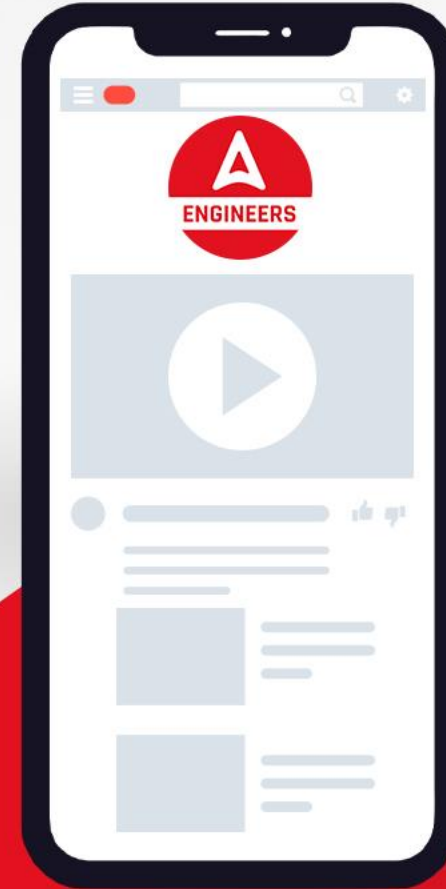


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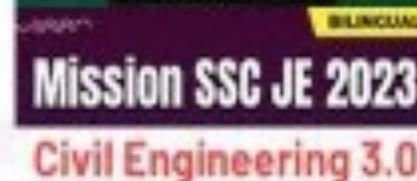
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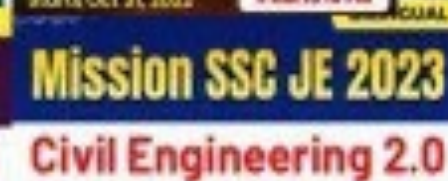
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A fall is constructed to

- (a) Overcome surplus energy
- (b) Destroy the surplus energy
- (c) Maintain surplus energy
- (d) Create surplus energy

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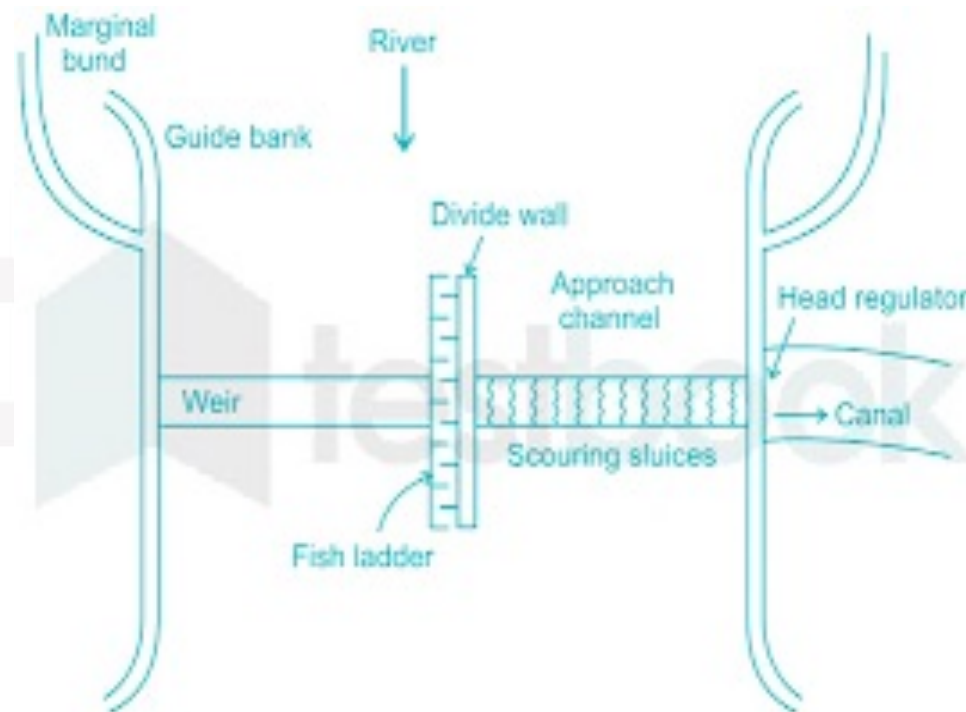
Sarda type fall was designed to:

- (a) Maximise the depth of cutting
- (b) Maintain the depth of cutting
- (c) Have no relation with depth of cutting
- (d) Minimise the depth of cutting

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The main function of a diversion head works of a canal from a river is

- (a) To remove silt
- (b) To control floods
- (c) To store water
- (d) To raise water level

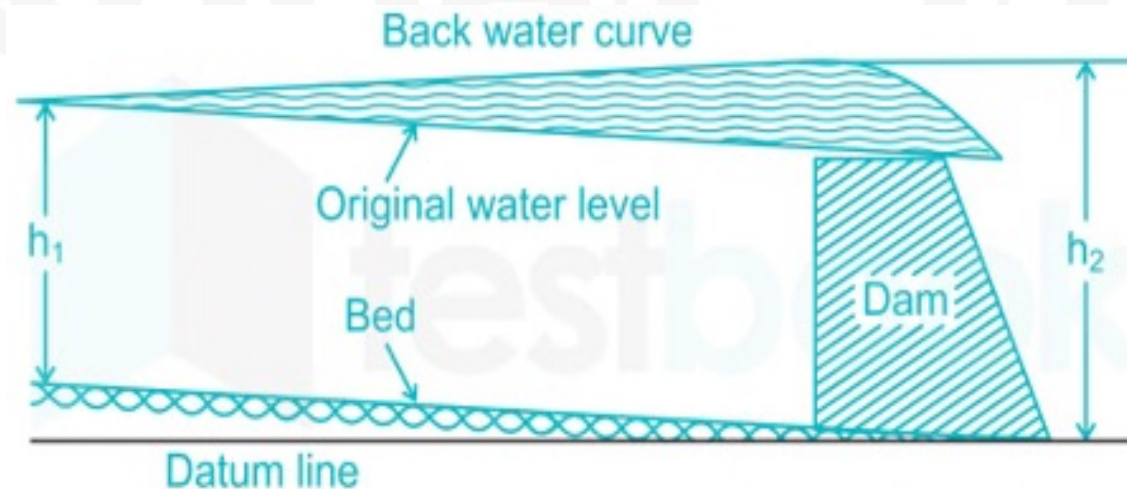


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In afflux, the rise in water level is due to -

- (a) Obstruction by the dam in the flow of water
- (b) Obstruction by the span of bridge
- (c) Obstruction by the water-way
- (d) Obstruction by the bridge in the flow of water

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The volume of water held by a natural stream channel is known as

-

- (a) Bank storage
- (b) Useful storage
- (c) Valley storage
- (d) Surcharge storage

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Wending technique is used -

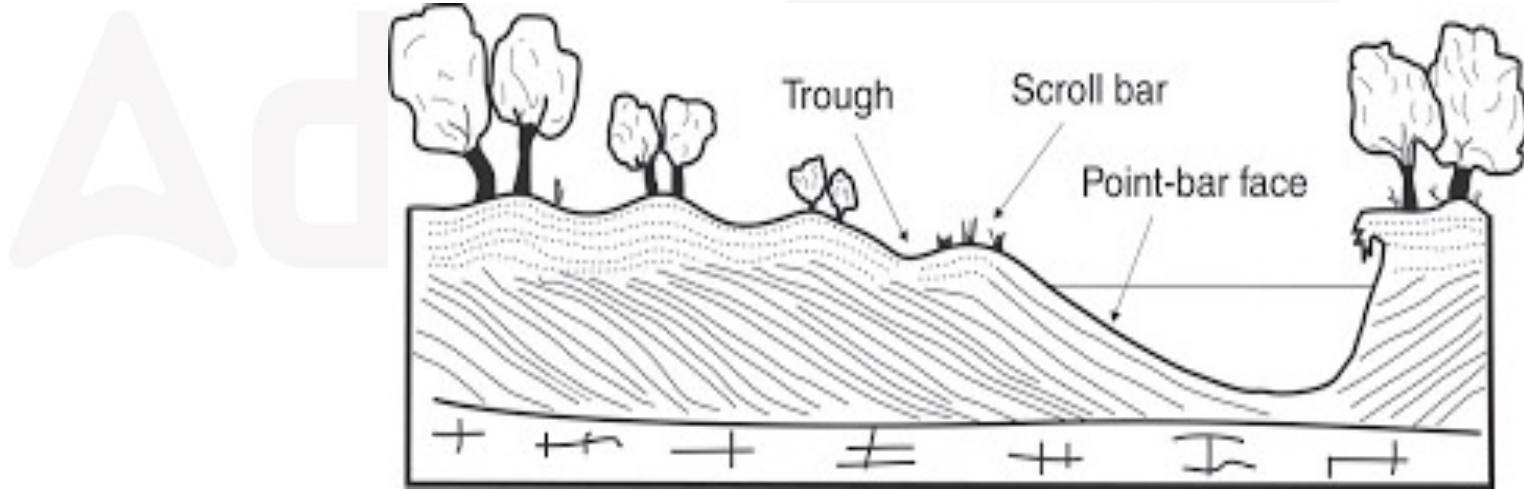
- (a) To determine velocity of sea waves during Tsumani**
- (b) To determine thickness of canal lining**
- (c) To measure the volume of dredging material in harbours**
- (d) To determine velocity of flow in shallow streams**

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Meandering of a river generally occurs in which of the following stages?

- (a) Delta stage
- (b) Boulder stage
- (c) Trough stage
- (d) Rocky stage

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Which of the following is NOT a necessity of canal lining?

- (a) Minimising the seepage loss
- (b) Reducing the evaporation of water
- (c) Retarding the growth of weeds
- (d) Reducing maintenance of canal

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The spacing between adjacent spurs in river training work is generally kept between _____ times the spur length

- (a) 2 to 2.5
- (b) 1 to 2
- (c) 1.5 to 2.5
- (d) 2.5 to 3.5

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The main cause of meandering is due to the _____.

- (a) Presence of an excessive bed slope in the river
- (b) Extra turbulence generated by the excess of river sediment during floods
- (c) Degradation
- (d) None of the above

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A river training work is generally required when the river is:-

- (a) Aggrading type
- (b) Degrading type
- (c) Meandering type
- (d) Both (a) and (b)

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A flood wave in a river is an example of

- (a) Steady, non-uniform flow
- (b) unsteady, gradually varied flow
- (c) steady, spatially varied flow
- (d) unsteady, rapidly varied flow

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Aggrading rivers are the rivers that are

- (a) Scouring**
- (b) Silting**
- (c) Meandering**
- (d) Depleting in flow**

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Tortuosity of a meandering river is always

- (a) Equal to 1
- (b) Greater than 1
- (c) Less than 1
- (d) Greater than 0.1

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How can we control waterlogging in agricultural land?

- (a) By increasing the intensity of irrigation
- (b) By lining of canals
- (c) By closing the nearby natural drains
- (d) By avoiding crop rotation

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The Bligh's creep coefficient for light sand and mud is:

- (a) 18
- (b) 25
- (c) 10
- (d) 20

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Sand - 5-9

clay - 12

fine sand - 15

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A tile drainage system draining 12 hectares flows at a design capacity for two days, following a storm. If the system is designed using a D.C. of 1.25 cm, how many cubic meters of water will be removed during this period?

- (a) 12500 m^3
- (b) 3000 m^2
- (c) 1250 m^3
- (d) 1500 m^3

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Land is said to be waterlogged when:

- (a) The soil pores in root zone get saturated with either by actual water table or by its capillary fringe.
- (b) There is flowing water over the land.
- (c) pH value of soil becomes as high as 8.5
- (d) The land is necessarily submerged under standing water.

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The condition of the land where the water table is at or near the ground level and becomes detrimental to the plant life is called as

.....

- (a) Super saturation
- (b) Water logging
- (c) Flooding
- (d) Seepage flood



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- (d) Waterlogging

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Which of the following is not a type of hard lining for a canal?

- (a) Shotcrete lining
- (b) Asphaltic concrete lining
- (c) Compacted earth lining .
- (d) Boulder lining

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Which one of the following is not a cause of water-logging?

- (a) Excess tapping of the ground water .
- (b) Excess rainfall
- (c) Frequent irrigation
- (d) High water table

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In the assumption of Bligh's theory of seepage

- (a) More weightage to horizontal creep as compared to vertical creep
- (b) Less weightage to horizontal creep as compared to vertical creep
- (c) Equal weightage to horizontal creep and vertical creep .
- (d) Head loss follows the sine curve

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The velocity with which the water approaches a weir is called

- (a) Velocity of flow
- (b) Velocity of approach.
- (c) Velocity of whirl
- (d) Velocity of nappe

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Entry of silt into the canal is controlled by -

- (a) Silt excluder.
- (b) Silt extractor
- (c) Silt enjector
- (d) Head regulator

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Silt ejector is provided

- (a) In river in conjunction with canal head regulator**
- (b) In the canal in the head reach .**
- (c) At headworks**
- (d) At oftaking canal head**

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To form still water pocket in front of canal head, following is constructed:

- (a) Fish Ladder
- (b) Divide wall .
- (c) Dam
- (d) None of the above

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Find the tensile stress of a mild steel rod of 18 mm diameter.

Given: ultimate load = 9.0 ton.

- (a) 0.03 Ton/sq.mm
- (b) 0.02 Ton/sq.mm
- (c) 0.05 Ton/sq.mm
- (d) 0.06 Ton/sq.mm

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The moment of inertia of a rectangle of width d and depth b about its horizontal axis at mid-depth is

(a) $db^3/12$

(b) $bd^3/12$

(c) $bd^3/3$

(d) $db^3/3$

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Two beam of equal cross-sectional area are subject to equal bending moment. If one beam has square cross-section and the other has circular section, then

- (a) Both beams will be equally strong
- (b) Circular section beam will be stronger
- (c) Square section beam will be stronger .
- (d) The strength of the beam will depend on the nature of loading

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If Z and I are section modulus and moment of inertia, the shear force F at a section is:

- (a) $\frac{My}{I}$
- (b) $\frac{M}{Z}$
- (c) $\frac{dM}{dx}$
- (d) $\int Mdx$

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About an axis perpendicular to the circular section, moment of inertia is given by

(a) $\pi d^3/16$

(b) $\pi d^4/32$

(c) $\pi d^3/32$

(d) $\pi d^4/64$

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The stress in any fibre in a beam subjected to bending depends upon

- (a) Distance of fibre from neutral axis .
- (b) Radius of curvature of neutral axis
- (c) Elasticity
- (d) None of the above

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For a hollow shaft of external and internal diameters 10 cm and 5 cm respectively, the torsional sectional modulus will be approximately _____:

- (a) 184 cm^2
- (b) 275 cm^2
- (c) 368 cm^2
- (d) 536 cm^3

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$$\frac{\pi (D^4 - d^4)}{32 D/2}$$

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