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Question No. 01

Generally the weir is aligned at right angles to the direction of the main river current because

- (A) It ensures less length of the weir
- (B) It gives better discharging capacity
- (C) It is economical
- (D) All of the above

Answer: Option D

Question No. 02

A straight glacis type fall with a baffle platform and a baffle wall is called

- (A) Vertical drop-fall
- (B) Glacis fall
- (C) Montague type fall
- (D) Inglis fall

Answer: Option D

Question No. 03

The meander pattern of a river is developed by

- (A) Average discharge
- (B) Dominant discharge
- (C) Maximum discharge
- (D) Critical discharge

Answer: Option B

Question No. 04

The ratio of the average load to the installed capacity of the plant whose reserve capacity is zero will be equal to

- (A) Load factor
- (B) Plant factor
- (C) Utilisation factor
- (D) Both (A) and (B)

Answer: Option D

Question No. 05

The most suitable chemical which can be applied to the water surface for reducing evaporation is

- (A) Methyl alcohol
- (B) Ethyl alcohol
- (C) Cetyl alcohol
- (D) Butyl alcohol

Answer: Option C

Question No. 06

The shape of recession limb of a hydrograph depends upon

- (A) Basin characteristics only
- (B) Storm characteristics only
- (C) Both (A) and (B)
- (D) None of the above

Answer: Option A

Question No. 07

If the critical shear stress of a channel is X_c , then the average value of shear stress required to move the grain on the bank is

- (A) $0.5 X_c$
- (B) $0.75 T_c$
- (C) X_c
- (D) $1.33 T_c$

Answer: Option B

Question No. 08

The flow of water after spilling over the weir crest in chute spillway and side channel spillway respectively are

- (A) At right angle and parallel to weir crest
- (B) Parallel and at right angle to weir crest
- (C) Parallel to weir crest in both
- (D) At right angle to weir crest in both

Answer: Option A

Question No. 09

Hydrodynamic pressure due to earthquake acts at a height of

- (A) $3H/4$ above the base
- (B) $3H/4$ below the water surface
- (C) $4H/3$ above the base
- (D) $4H/3$ below the water surface, where H is the depth of water.

Answer: Option C

Question No. 10

Select the correct statement.

- (A) A meander increases the river length but a cut off reduces the river length
- (B) A cut-off increases the river length but a meander reduces the river length
- (C) Both meander and cut-off increase the river length
- (D) Both meander and cut-off decrease the river length

Answer: Option A