

QUIZ NO: 807

TOPIC: IRRIGATION ENGINEERING

DATE: 16/03/2024

1. For no tension to develop in the gravity dam, the eccentricity 'e' of the resultant force should be

- [A] Less than $b/3$
- [B] Less than $b/6$
- [C] Less than $b/4$
- [D] Less than $b/12$

Answer: B

2. For a reservoir with depth of water equal to H, the top width 'a' is given by the expression?

- [A] 15 % of H
- [B] 14 % of H
- [C] 17 % of H
- [D] 16 % of H

Answer: B

3. When the reservoir is full, the slope which is most likely to slide is:

- [A] u/s slope
- [B] d/s slope
- [C] Both a and b
- [D] None of them

Answer: B

4. An elementary triangular concrete gravity dam, supporting 60 m height of the reservoir water and full uplift, should have a minimum base width equal to:

- [A] 36 m
- [B] 39 m
- [C] 51 m
- [D] 61 m

Answer: D

5. The height difference between top of the dam and normal pool level is known as:

- [A] Surcharge storage
- [B] Net free board
- [C] Gross free board
- [D] Sluice way

Answer: C

6. Average yield of a storage reservoir is the arithmetic average of its:

- [A] Firm yields over a long period
- [B] Secondary yields over a long period
- [C] Firm and secondary yield over a long period
- [D] Reservoir yield over a long period

Answer: C

7. Yield of a reservoir represents

- [A] Inflow into the reservoir
- [B] Capacity of the reservoir
- [C] Outflow demand on the reservoir
- [D] Optimum value of the catchment yield

Answer: C

8. The volume of water stored in the reservoir which is available for drawing through sluices:

- [A] Live storage
- [B] Dead storage
- [C] Surcharge storage
- [D] Valley storage

Answer: A

9. The amount of water stored in river channel without any artificial storage is known as

- [A] Dead storage
- [B] Dam
- [C] Valley storage
- [D] Diversion dam

Answer: C

10. The volume of water stored between normal pool level and maximum pool level is called.....?

- [A] Surcharge storage
- [B] Useful storage
- [C] Dead storage
- [D] Valley storage

Answer: A

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