

QUIZ NO: 613

TOPIC: FLUID MECHANICS

DATE: 05/07/2022

1. For an open channel flow, the value of Re for laminar flow?

- [A] <500
- [B] <1000
- [C] >2000
- [D] Between 500 and 2000

Answer: A

2. Flow parameters such as velocity, depth, cross section and slope of the channel change for a given length of the channel, then that flow is?

- [A] Uniform flow
- [B] Steady flow
- [C] Unsteady flow
- [D] Non uniform flow

Answer: D

3. A prismatic channel is the one which has?

- [A] constant shape
- [B] constant shape and size
- [C] constant shape and size with constant slope
- [D] constant size

Answer: C

4. The section factor of a rectangular channel is 111.80m. The discharge and velocity of water are 250 m³/s and 5 m/s respectively. Calculate the hydraulic depth of the channel?

- [A] 2m
- [B] 3m
- [C] 4m
- [D] 5m

Answer: D

5. What is the wetted area for a triangular channel having depth y and the side slope being Z ?

- [A] Zy^2
- [B] $2Zy$
- [C] Zy
- [D] $Z^2 y$

Answer: A

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6. For the most economical triangular section, hydraulic radius is?

- [A] $d/2$
- [B] $d/3$
- [C] $d/2\sqrt{2}$
- [D] $d/4$

Answer: C

7. Surge is an example of?

- [A] Steady, Rapidly varied flow
- [B] Unsteady, Gradually varied flow
- [C] Unsteady, Rapidly varied flow
- [D] Steady Gradually varied flow

Answer: C

8. A turbine converts?

- [A] Hydraulic energy to electrical energy
- [B] Electrical energy to hydraulic energy
- [C] Both (a) and (b)
- [D] None of these

Answer: A

9. For the rectangular section, E_{min} ?

[A] $5/4h_c$

[B] $2/3h_c$

[C] $2h_c$

[D] $3/2h_c$

Answer: D

10. Which type of turbine is used to change the velocity of the water through its flow?

[A] Kinetic turbines

[B] Axial flow turbines

[C] Impulse turbines

[D] Reaction turbines

Answer: C

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