



# Unit 13 - Week 12

## Course outline

### How to access the portal

#### Week 1

#### Week 2

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● Lecture 49 : Unsteady Flow in Pipes

● Lecture 50 : Surface Water and Ground Water Interaction

● Lecture 51 : Course Summary

○ Quiz : Assignment 12

○ Assignment 12 Solution

## Assignment 12

The due date for submitting this assignment has passed. **Due on 2017-10-18, 23:59 IST.**

### Submitted assignment

1) The unsteady flow in pipes is solved with \_\_\_\_\_ Finite Volume discretization **2 points**

- Implicit
- Explicit
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Explicit*

2) In explicit discretization of 1D-channel( $\Delta t_c$ )-2D-surface water( $\Delta t_s$ )-2D-groundwater( $\Delta t_g$ ) flow problem, **2 points** arrange the time-steps required in increasing order (from physical point of view and identical spatial resolution).

- $t_c < t_s < t_g$
- $t_c < t_s > t_g$
- $t_c > t_s < t_g$
- $t_c > t_s > t_g$

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*$t_c < t_s < t_g$*

3) In interaction of different types of flow, information can be transferred in terms of **2 points**

- source/sink term
- depth
- none of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*source/sink term*

*depth*

4) In case of gaining stream, water level in the aquifer is at a \_\_\_\_\_ than that of a river **2 points**

- lower level
- higher level
- none of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*higher level*

5) In case of losing stream, water level in the aquifer is at a \_\_\_\_\_ than that of a river

**2 points**

- lower level
- higher level
- none of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*lower level*

6) In unsteady pipe flow problem, stability of the numerical scheme depends on

**2 points**

- Courant number
- Peclet Number
- Froude number
- CFL condition
- Reynolds number
- None of these

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Courant number*

*CFL condition*

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