

1. What does IUH stand for in hydrology?

- a) Intermittent Unit Hydrograph
- b) Instantaneous Unit Hydrograph
- c) Indirect Unit Hydraulics
- d) Infiltration Utilization Hypothesis

Answer: b) Instantaneous Unit Hydrograph

Explanation: The Instantaneous Unit Hydrograph (IUH) is a fundamental concept in hydrology used to represent the runoff response of a watershed to a unit input of rainfall occurring at any given time.

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2. Which method is commonly used for flood routing in hydrological studies?

- a) Reservoir routing
- b) ISD method
- c) Puls method
- d) Gumbel's method

Answer: a) Reservoir routing

Explanation: Reservoir routing is a commonly used method for flood routing, which involves predicting the flow through a reservoir during a flood event.

3. What does ISD stand for in hydrology?

- a) Instantaneous Storage Discharge
- b) Indirect Sediment Deposition
- c) Internal Stream Discharge
- d) Indirect Storage Drainage

Answer: a) Instantaneous Storage Discharge

Explanation: ISD (Instantaneous Storage Discharge) method is used in hydrology to model the relationship between storage and discharge in a reservoir.

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4. Which method is used for channel routing based on the Muskingham approach?

- a) ISD method
- b) Puls method
- c) Empirical method
- d) Muskingham method

Answer: d) Muskingham method

Explanation: The Muskingham method is commonly used for channel routing, which predicts

the flow rate and water level in a river or channel over time.

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5. What is the primary purpose of using Gumbel's distribution in hydrology?

- a) Flood routing
- b) Reservoir sedimentation
- c) Frequency analysis
- d) IUH derivation

Answer: c) Frequency analysis

Explanation: Gumbel's distribution is frequently used in hydrology for frequency analysis, particularly in estimating extreme events such as floods or droughts.

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6. What is the main cause of reservoir sedimentation?

- a) Erosion
- b) Algal growth
- c) Urbanization
- d) Industrial pollution

Answer: a) Erosion

Explanation: Erosion, primarily due to soil erosion from upstream catchment areas, is the main cause of reservoir sedimentation.

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7. Which factor does NOT affect reservoir sedimentation?

- a) Climate
- b) Land use
- c) Reservoir depth
- d) Population density

Answer: d) Population density

Explanation: Population density is not directly related to reservoir sedimentation. Factors like climate, land use, and reservoir depth have more significant impacts.

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8. What is the aim of empirical and rational formulas in the context of design floods?

- a) To estimate sediment deposition
- b) To calculate reservoir capacity
- c) To determine flood magnitudes
- d) To model channel routing

Answer: c) To determine flood magnitudes

Explanation: Empirical and rational formulas are used to estimate flood magnitudes, aiding in the design of hydraulic structures and flood management.

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9. In frequency analysis, what does Gumbel's distribution help determine?

- a) Reservoir capacity
- b) Flood recurrence intervals
- c) Sediment transport rates
- d) IUH parameters

Answer: b) Flood recurrence intervals

Explanation: Gumbel's distribution is applied in frequency analysis to estimate flood recurrence intervals, helping in flood risk assessment and management.

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10. Which method is NOT commonly used for reservoir sedimentation control?

- a) Afforestation
- b) Dredging
- c) Desalination

d) Soil conservation

Answer: c) Desalination

Explanation: Desalination is not a method used for reservoir sedimentation control. Afforestation, dredging, and soil conservation are more commonly employed techniques.

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11. What does the IUH represent in hydrological analysis?

- a) Rainfall intensity
- b) Runoff response
- c) Reservoir capacity
- d) Sedimentation rate

Answer: b) Runoff response

Explanation: The IUH (Instantaneous Unit Hydrograph) represents the runoff response of a watershed to a unit input of rainfall, aiding in hydrological analysis.

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12. Which method is used to predict the flow through a reservoir during a flood event?

- a) ISD method

- b) Empirical method
- c) Reservoir routing
- d) Rational formula

Answer: c) Reservoir routing

Explanation: Reservoir routing is specifically used to predict the flow through a reservoir during a flood event, considering factors like inflow, outflow, and storage.

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13. What does the Muskingham method primarily focus on in hydrological modeling?

- a) Flood frequency analysis
- b) Reservoir sedimentation
- c) Channel routing
- d) IUH derivation

Answer: c) Channel routing

Explanation: The Muskingham method is primarily focused on channel routing, predicting flow rates and water levels in rivers or channels over time.

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14. Which factor is NOT typically considered in frequency analysis for hydrological events?

- a) Precipitation patterns
- b) Catchment area
- c) Reservoir depth
- d) Streamflow

Answer: c) Reservoir depth

Explanation: Reservoir depth is not typically considered in frequency analysis for hydrological events. Factors like precipitation patterns, catchment area, and streamflow are more relevant.

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15. What is the primary function of the puls method in hydrology?

- a) Flood routing
- b) Sedimentation control
- c) IUH derivation
- d) Reservoir capacity estimation

Answer: a) Flood routing

Explanation: The puls method in hydrology is primarily used for flood routing, predicting the movement of floodwaters through river channels and reservoirs.

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