

QUIZ NO: 535

TOPIC: HYDROLOGY

DATE: 30/12/2021

1. A tropical cyclone in the northern hemisphere is a zone of:

- [A] Low pressure with clockwise wind
- [B] Low pressure with anticlockwise wind
- [C] High pressure with clockwise wind
- [D] High pressure with anticlockwise wind

Answer: B

2. An accurate estimate of average rainfall in a particular catchment area can be obtained by

- [A] Arithmetic Mean Method
- [B] Isohyetal Method
- [C] Normal Ratio Method
- [D] Thiessen Method

Answer: B

3. Depth-area-duration curves of precipitation are drawn as:

- [A] Minimizing envelopes through the appropriate date points
- [B] Maximizing envelopes through the appropriate date points
- [C] Best fit mean curves through appropriate data points
- [D] Best fit mean straight lines through appropriate data points

Answer: B

4. The penman's evapotranspiration equation is based on:

- [A] Water budget method
- [B] Energy balance method
- [C] Mass transfer method
- [D] Energy balance and mass transfer approach

Answer: D

5. Consider the following chemical emulsions:

- 1. Methyl alcohol 2.cetyl alcohol 3. Stearyl alcohol 4.kerosene**

Which of the above chemical emulsions is or are used to minimize the loss of water through the process of evaporation?

- [A] 1 only
- [B] 1 & 4
- [C] 2 & 4
- [D] 2 & 3

Answer: D

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6. Consumptive use refers to the loss of water as a result of

- [A] Evaporation and transpiration
- [B] Crop water requirement
- [C] Evaporation and infiltration
- [D] Evaporation and transpiration from the cropped area

Answer: D

7. A 4hr rainfall in a catchment of 250km² produces rainfall depths of 6.2cm & 5.0cm in successive 2 hr unit periods. Assuming the ϕ index of the soil to be 1.2cm/hr, the runoff vol in ha-m will be

- [A] 16
- [B] 22
- [C] 1600
- [D] 2200

Answer: C

8. A 3hr storm on small drainage basin produced rainfall intensities of 3.5cm/hr, 4.2cm/hr and 2.9cm/h in successive hours. If the surface runoff due to the storm is 3cm, then the value of ϕ index will be

- [A] 2.212cm/hr
- [B] 2.331cm/hr
- [C] 2.412cm/hr
- [D] 2.533cm/hr

Answer: D

9. The total observed runoff volume during a 4hr storm with a uniform intensity of 2.8cm/hr is $25.2 \times 10^6 \text{ m}^3$ from a basin of 280km^2 area. What is the average infiltration rate for the basin?

- [A] 3.6mm/hr
- [B] 4.8mm/hr
- [C] 5.2mm/hr
- [D] 5.5mm/hr

Answer: D

10. Hortons infiltration equation was fitted to data from an infiltration test. It was found that the initial infiltration capacity was 20mm/h, final infiltration capacity was 5mm/h and the exponential decay constant was 0.5h^{-1} . If the infiltration was at capacity rates, the total infiltration depth for a uniform storm of 10h duration would be

- [A] 80mm
- [B] 50mm
- [C] 30mm
- [D] 20mm

Answer: A

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