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**Q : 1) When an oven-dried sample of soil is kept open in the atmosphere, it absorbs some amount of water. This water is known as**

**A : Capillary water**

**B : Gravitational water**

**C : Hygroscopic water**

**D : All of these**



**Q : 2) A useful soil moisture for plant growth is**

**A : Capillary water**

**B : Gravitational water**

**C : Hygroscopic water**

**D : All of these**

**Q : 3) The water content at which plants can no longer extract sufficient water from the soil for its**

**A : Field capacity**

**B : Saturation capacity**

**C : Permanent wilting point**

**D : Available moisture**



**Q : 4) Consumptive use of water by a crop is equal to**

**A : The depth of water consumed by evaporation**

**B : The depth of water consumed by transpiration**

**C : The depth of water consumed by evaporation and transpiration during crop growth, including water consumed by accompanying weed growth**

**D : None of the above**

**Q : 5) Which of the following statement is correct?**

**A : The gravity water is harmful to the crops**

**B : The hygroscopic water remains attached to the soil molecules by chemical bonds**

**C : The capillary water is utilized by the plants**

**D : All of the above**



**Q : 6) The ratio between the area of a crop irrigated and the quantity of water required during its entire period of the growth, is known as**

**A : Delta**

**B : Duty**

**C : Base period**

**D : Crop period**

**Q : 7) For closed growing crops (such as wheat), the method of irrigation used is**

**A : Free flooding**

**B : Border flooding**

**C : Check flooding**

**D : Basin flooding**



**Q : 8) The hydrology cycle is expressed by the equation**

**A :  $P = E - R$**

**B :  $P = E + R$**

**C :  $P = E \times R$**

**D :  $P = E / R$**

**Q : 9) According to Dicken's formula, the flood discharge (Q) in cumces is given by**

**A :  $Q = CA^{2/3}$**

**B :  $Q = CA^{3/4}$**

**C :  $Q = CA^{5/6}$**

**D :  $Q = CA^{7/8}$**

**Q : 10) Irrigation canals are generally aligned along**

**A : Contour line**

**B : Water shed (Ridge line)**

**C : Straight line**

**D : Valley line**



**Q : 11) A canal aligned at right angles to the contour of a country, is known as**

**A : Side slope canal**

**B : Contour canal**

**C : Water shed canal**

**D : Branch canal**

**Q : 12) Sodium absorption ratio (SAR) is defined as**

**A :** 
$$\frac{Na^+}{\sqrt{Ca^{++} + Mg^{++}}}$$

**B :** 
$$\frac{Na^+}{\sqrt{\frac{Ca^{++} + Mg^{++}}{2}}}$$

**C :** 
$$\frac{Na^+}{2\sqrt{Ca^{++} + Mg^{++}}}$$

**D :** 
$$\frac{2Na^+}{\sqrt{Ca^{++} + Mg^{++}}}$$

**Q : 13) If the electrical conductivity of water is in between 250 to 750 micro mhos/cm at 25°C, then it is classified as**

**A : Low salinity water**

**B : Medium salinity water**

**C : High salinity water**

**D : Very high salinity water**



**Q : 14) A 70% index of wetness means**

**A : Rain excess of 30%**

**B : Rain deficiency of 30%**

**C : Rain deficiency of 70%**

**D : None of the above**

**Q : 15) The following data were recorded from an irrigated field**

- 1. Field capacity : 20%**
- 2. Permanent wilting point : 10%**
- 3. Permissible depletion of available soil moisture : 50%**
- 4. Dry unit weight of soil : 1500 kgf/m<sup>3</sup>**
- 5. Effective rainfall : 25 mm**

**Based on these data, the net irrigation requirement per meter depth of soil will be**

- A : 75 mm**
- B : 125 mm**
- C : 50 mm**
- D : 25 mm**

**Q : 16) What is the moisture depth available for evapotranspiration in root zone of 1 m depth soil, if dry weight of soil is 1.5 gm/cc, field capacity is 30% and permanent wilting point is 10%?**

**A : 450 mm**

**B : 300 mm**

**C : 200 mm**

**D : 150 mm**



**Q : 17) 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**

**Q : 18) The delta for a crop having base period 120 days is 70 cm what is the duty**

**A : 2480 hectare / cumec**

**B : 1481 hectare cumec**

**C : 148 hectare / cumec**

**D : 1.481 hectare / cumec**

**Q : 19) Consider the following terms relating to irrigation requirements :**

- 1. Consumptive irrigation requirement**
- 2. Net irrigation requirement**
- 3. Field irrigation requirement**
- 4. Gross irrigation requirement**

**For a given set up, which one of the following is the correct relation?**

**A :  $1 > 2 > 3 > 4$**

**B :  $1 < 2 < 3 < 4$**

**C :  $(1 + 2) > 3 > 4$**

**D :  $1 > (2 + 3)$**



**Q : 20) If the discharge required for different crops is 0.4 cumecs in the field and the capacity factor and time factors are 0.8 and 0.5 respectively, then what is the design discharge for the distributary at its head**

**A : 0.80 cumecs**

**B : 0.16 cumecs**

**C : 1.0 cumecs**

**D : 1.24 cumecs**

**Q : 21) In a canal irrigation project, 76% of the culturable command area (CCA) remained without water during kharif season; and 58% of CCA remained without water during Rabi season in a particular year. Rest of the areas got irrigated in each crop respectively. What is the intensity of irrigation for the project in that year?**

**A : 134%**

**B : 76%**

**C : 66%**

**D : 58%**

**Q : 22) The spacing of tile drains to relieve waterlogged land is directly proportional to the**

**A : Depth of drain below the ground surface**

**B : Depth of impervious strata from the drain**

**C : Depth of drain below the water level**

**D : Coefficient of permeability of the soil to be drained**

**Q : 23) For medium silt whose average grain is 0.16 mm, Lacey's silt factor is likely to be**

**A : 0.30**

**B : 0.45**

**C : 0.70**

**D : 1.32**



**Q : 24) Balanced depth of cutting of canal is**

**A : Half the total depth of a canal**

**B : Half of full supply depth**

**C : The maximum cut that an excavator can take**

**D : Where volume of cutting is equal to volume of filling**

**Q : 25) Match List-I with List-II and select the correct answer (s = bed slope, q = discharge intensity, Q = discharge)**

List-I	List-II
A. Mean velocity in a Lacey regime channel	1. $S^{1/2}$
B. Mean velocity in a lined channel	2. $S^{1/3}$
C. Normal scour depth in an alluvial channel	3. $Q^{2/3}$
D. Wetted perimeter of a Lacey regime channel	4. $S^{-1/3}$
	5. $Q^{1/2}$

**Codes :**

**A : 2, 5, 3, 1**

**B : 3, 1, 4, 5**

**C : 2, 1, 3, 5**

**D : 3, 5, 4, 1**

**Q : 26) Garret's diagrams are used to**

**A : Separate base flow total runoff**

**B : Correct inconsistency in rainfall data**

**C : Determine reservoir capacity**

**D : Design channels**

**Q : 27) By considering the channel index as  $5/3$ , the setting of an orifice type irrigation outlet to have proportionality is**

**A : 0.90**

**B : 0.67**

**C : 0.30**

**D : 0.15**

**Q : 28) Match List-I (Control structures) with List-II (Foundations of the control structures) and select the correct answer:**

	List-II
A. Canal drop	1. Control of flow depth
B. Canal escape	2. Control of bed grade
C. Canal cross regulator	3. Control of full supply level
D. Canal outlets	4. Control of discharge

**Codes :**

**A : 2, 3, 4, 1**

**B : 2, 3, 1, 4**

**C : 3, 2, 1, 4**

**D : 3, 2, 4, 1**



**Q : 29) Gibb's module is type of outlet which ensures**

**A : Constant discharge even if the water level in the supply channel and water course fluctuate**

**B : Variable discharge as per the need**

**C : Constant discharge into the water course when the water levels in the supply channel vary**

**D : Constant discharge for varying water levels in the water course for a given water level in the supply channel**

**Q : 30) In a river, silt excluder and silt ejector are constructed.**

**A : At a location after the head regulator and at the head of the canal, respectively**

**B : At the head of the canal and at a location after the head regulator, respectively**

**C : At the same location**

**D : At specific locations depending upon diverse factors and their locations do not follow a set pattern.**

**Q : 31) Match List-I (Theory) with List-II (Propounded by) and select the correct answer :**

List-I	List-II
A. Exit gradient B. Alluvial canal C. Unit hydrograph D. Boundary layer	1. G. Lacey 2. L.K. Sherman 3. A.N. Khosla 4. C. Inglis 5. T.V. Karman 6. L. Prandtl

**Codes :**

**A : 1, 3, 2, 6**

**B : 6, 2, 3, 5**

**C : 3, 1, 2, 6**

**D : 3, 1, 4, 2**

**Q : 32) Match the correct answer from Group B for the statements given in Group A.**

Group A	Group B
A. In perennial canals B. In non-perennial canals C. In protective canals D. In productive canals	1. Water does not flow throughout the year 2. Revenue from water is not expected 3. Revenue from water is expected 4. Water flows throughout the year

**Codes**

**A : 4, 3, 2, 1**

**B : 4, 1, 2, 3**

**C : 2, 3, 4, 1**

**D : 2, 1, 4, 3**

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