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Q : 1) 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 : 2) 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 : 3) Match List-I (Theory) with List-II (Propounded by) and select the correct answer :

List-I	List-II
A. Exit gradient	1. G. Lacey
B. Alluvial canal	2. L.K. Sherman
C. Unit hydrograph	3. A.N. Khosla
D. Boundary layer	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 : 4) Match the correct answer from Group B for the statements given in Group A.

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

Q : 5) The following details pertain to the crossing of a canal and a natural drain.

Bed level of canal = + 171 m; Full supply depth of canal = 1.6 m; Bed level of drain = +169.2m; Depth of flow in the drain corresponding to high flood discharge = 2.5 m.

The type of cross drainage work to be designed at the crossing location is :

A : A canal syphon aqueduct

B : A syphon

C : An aqueduct

D : A super passage

Q : 6) The duty of a given crop is 400 hectare/cumces, when the base period of the crop is 100 days, Delta (Δ) of the crop will be:

A : 2000 mm

B : 4000 mm

C : 6000 mm

D : 2160 mm

Q : 7) A canal was designed for a full supply discharge of 60 cumec. The average supply discharge in the canal is 40 cumec. The capacity factor of the canal is:

A: 6.0

B : 0.67

C : 0.45

D : 4.00

Q : 8) The following statements (C1, C2, C3, C4) pertain to the characteristics of different type of canals. Which of the following statements is/are correct?

C1 : A contour canal can irrigate command areas on both the banks

C2 : It is possible to construct a contour canal with banks on one side only

C3 : In the case of a ridge canal, the number of cross drainage works are maximum

C4 : Side slope canal is aligned roughly at right angles to the ground contours.

A : C2 and C4 only

B : C1, C3, and C4 only

C : C1 and C3 only

D : C1 only

Q : 9) Which of the following CANNOT be considered as a hard surface lining of canal?

A : Plaster lining

B : Soil cement lining

C : Boulder lining

D : Asphaltic concrete lining

Q : 10) Kor watering in irrigation is defined as :

A : The first watering which is given to a crop before transplanting

B : The first watering which is given to a plot when the crop is transplanted

C : The first watering which is given to seed sown in the plot for germination

D : The first watering which is given to a crop when the crop is a few centimeters high

Q : 11) Twi cumec of water is pumped into a farm distribution system. Out of this, 0.8 cumec is delivered to a turn-out. What is the conveyance efficiency?

A : 60%

B : 50%

C : 70%

D : 40%

Q : 12) In which of the following types of canal alignment are the cross-drainage works minimised?

A : Watershed canal

B : Valley canal

C : Straight canal

D : Contour canal

Q : 13) The number of hectares of land irrigated for full growth of a given crop of supply of 1 m^3 per second of water continuously during the entire base period of crop is called

A : Duty

B : Kor watering

C : Delta

D : Crop water

Q : 14) Which of the following is correct about annual irrigation intensity ?

A : It can be greater the 100%

B : Minimal value of annual irrigation is desirable

C : It is the area in percentage of the gross command are a irrigated in a season

D : It is the area in percentage of the cultural command area irrigated in a season

Q : 15) Which of the following conditions is NOT applicable to a true regime?

A : Channel can be scoured more easily than it can be deposited

B : Silt grade is constant

C : Discharge is constant

D : Silt charge is constant

Q : 16) Which of the following is not a cross drainage work?

A : Aqueduct

B : Syphon

C : Super passage

D : Tunnel

Q : 17) Choose the INCORRECT characteristic of a contour from among the following

A : A watershed line crosses the contours at right angles.

B : The direction of sleepiest slope is along the longest distance between the contours

C : Two contour lines touch in the case of a vertical cliff

D : In the direct method of contouring, the contours are not interpolated

Q : 18) Guide banks are provided in rivers to :

A : Increase the depth of flow in the river

B : Decrease the velocity of flow of the river

C : Channelise the flow of the river

D : Reduce the flood peak

Q : 19) Find the delta of a crop wen its duty is 900 ha/cumec on the field. The base period of the crop is 100 days.

A : 87 cm

B : 64 cm

C : 45 cm

D : 96 cm

Q : 20) A silt control device consisting of a number of rectangular tunnels – provided to the axis of head regulator and terminating near the under-sluiced weir – to allow the clearer water to flow through the head regulator is called :

A : Silt excluder

B : Silt tunnel

C : Under sluice

D : Silt ejector

Q : 21) Duty on capacity is also known as :

A : Nominal duty

B : Capacity factor

C : Full supply coefficient

D : Root zone depth

Q : 22) The gross commanded area of a distributary is 12000 hectares, culturable command area in Kharif and Rabi season is 35554.4 hectares, and 2369.9 hectares, respectively. If the average duty at the head of the distributary is 2150 hectare per cumec for rabi season and 1900 hectare per cumec for kharif season, then determine the discharge required at the head of the distributary from average demand consideration (nearest to closest value):

A : 1.49 cumecs

B : 1.10 cumecs

Q : 23) The given figure represents

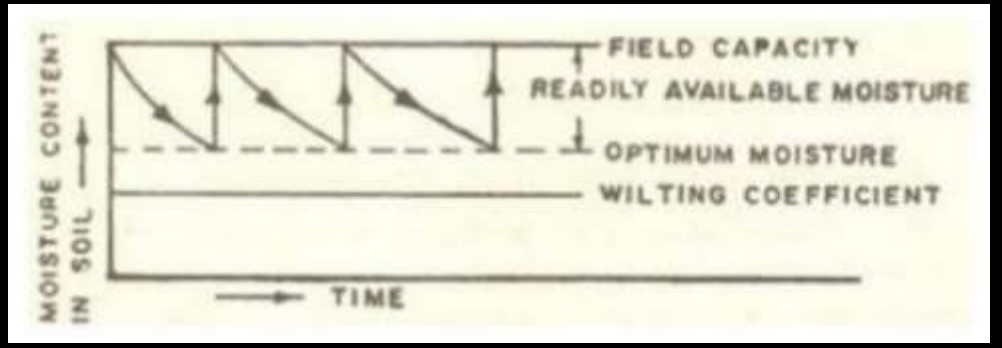
_____

A : Furrow method of irrigation

B : Classes of soil water

C : Base flow of water

D : Frequency of irrigation



Q : 24) Which type of irrigation is practiced when the water supply is at too low a level to run by gravitation of the land?

A : Lift irrigation

B : River canal irrigation

C : Flow irrigation

D : Inundation irrigation

Q : 25) Find the field capacity of a soil for the given data

1. Root zone depth = 2 m
2. Existing water content = 5%
3. Dry density of soil = 20kN/m^3
4. Water applied to the soil = 500 m^3
5. Water loss due to evaporation and deep percolation = 10%
6. Area of plot = 1000 m^2

(consider unit weight of water = 9.81 kN/m^3)

A : 16%

B : 24%

C : 20%

D : 12%

Q : 26) An irrigation project is called as a major project if the culturable command area (Hectares) is more than:

A : 2500

B : 5000

C : 7500

D : 10000

Q : 27) Which of the following does not contribute to water-logging?

A : Inadequate drainage

B : Excessive tapping of water

C : Seepage from unlined canals

D : Frequent flooding

Q : 28) Canals constructed for draining of water from water-logged areas, arc called

A : Inundation canals

B : Drains

C : Ridge canals

D : Contour canals

Q : 29) Pick up the incorrect statement from the following :

A : Seepage drains reduce the chances of water logging

B : Water-logging makes the land more productive

C : Water logging is caused due to over irrigation

D : Excessive seepage from canal may cause water logging

Q : 30) A repelling groyne is aligned

A : Pointing upstream

B : Pointing downstream

C : perpendicular to bank

D : Parallel to bank

Q : 31) Meandering of a river generally occurs in which of the following stages?

A : Delta stage

B : Boulder stage

C : Trough stage

D : Rocky stage

Q : 32) A fall is constructed to

A : Overcame surplus energy

B : Destroy the surplus energy

C : Maintain surplus energy

D : Create surplus energy

Q : 33) Which of the following is an advantage of tile drainage?

A : It removes the free gravity water that is not directly available to the plants

B : It decrease the volume of soil from which the roots can obtain food

C : It decreases air circulation

D : It decreases bacterial activity

Q : 34) Which of the following spillways is least suitable for an earth dam?

A : Chute spillway

B : Side channel spillway

C : Shaft spillway

D : Ogee spillway

Q : 35) For row crops, the most commonly adopted method of surface irrigation is:

A : Furrow and corrugation irrigation

B : Base flooding

C : Free flooding

D : Check flooding

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