

Banaras Hindu University

Question Paper Name: 355 21st May 2019 Shift 2
Subject Name: 355
Creation Date: 2019-05-22 09:29:49
Duration: 120
Total Marks: 360
Display Marks: Yes
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

M Tech Soil and Water Conservation Engg.

Group Number : 1
Group Id : 65898837
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 360

M Tech Soil and Water Conservation Engg.

Section Id : 65898850
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 120
Number of Questions to be attempted: 120
Section Marks: 360
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 65898860
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 6589884274 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The latest method for the estimation of PET (potential evapotranspiration) is :

Options :

1. Penman's Equation

2. Blaney criddle formula
3. Class A pan evaporation
4. Penman Monteith Equation

Question Number : 2 Question Id : 6589884275 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The rational method used for computation of the runoff from micro-watershed gives :

Options :

1. Runoff volume
2. Discharge of a channel
3. Peak rate of runoff
4. Runoff depth

Question Number : 3 Question Id : 6589884276 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Particle density and bulk density of a soil are 2.8 g/cm^3 and 1.4 g/cm^3 , its void ratio will be :

Options :

1. 0.5
2. 1.0
3. 2.0
4. 4.2

Question Number : 4 Question Id : 6589884277 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A practical method of reducing sheet erosion from sloping lands is :

Options :

1. Keeping the land fallow
2. Farming on contour stripes
3. Construction of small reservoirs
4. Using plastic sheet cover

Question Number : 5 Question Id : 6589884278 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

General assumption made to study the mechanics of sediment transport is :

Options :

1. Soil is incoherent ($c = 0$)
2. Soil is coherent
3. $c > 1$
4. $c = 1$

Question Number : 6 Question Id : 6589884279 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Casagrande's apparatus is used to determine :

Options :

1. Liquid limit
2. Plastic limit
3. Shrinkage limit
4. Plasticity index

Question Number : 7 Question Id : 6589884280 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When a canal is carried over a natural drain, at crossing, the structure provided is called :

Options :

1. syphon
2. aqueduct
3. super passage
4. level crossing

Question Number : 8 Question Id : 6589884281 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The standard unit of expressing specific gravity of solids is :

Options :

1. g/cm^3
2. g/cc
3. kg/m^3
4. $1/\text{m}^3$

Question Number : 9 Question Id : 6589884282 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Land use capability classification is primarily based on :

Options :

1. Soil texture
2. Rainfall

3. Ground water
4. Land slope

Question Number : 10 Question Id : 6589884283 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mathematical equation used to describe saturated-unsaturated flow of water in
drip irrigation :

Options :

1. Richard equation
2. Continuity equation
3. Bernoulli's theorem
4. Laplace equation

Question Number : 11 Question Id : 6589884284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The water holding capacity of soil will be highest if it contains more of :

Options :

1. Organic matter
2. Sand
3. Clay
4. Large Pores

Question Number : 12 Question Id : 6589884285 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydraulic conductivity is the proportionality constant in :

Options :

1. Bernauli's equation

2. Darcy's equation
3. Rational formula
4. Laplace's equation

Question Number : 13 Question Id : 6589884286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The useful moisture of a soil is equal to its :

Options :

1. field capacity
2. saturation capacity
3. moisture content at permanent wilting point
4. difference between field capacity and permanent wilting point

Question Number : 14 Question Id : 6589884287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Plant roots extract moisture from soil by a process called :

Options :

1. Osmosis
2. Photosynthesis
3. Hydrolysis
4. Respiration

Question Number : 15 Question Id : 6589884288 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A cross regulator is provided on a main canal :

Options :

1. to minimize the amount of silt entering the branch canal

2. to let maximum slit is carried into the branch canal
3. for no specific purpose
4. to carry the canal across the drain

Question Number : 16 Question Id : 6589884289 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Area under a hydrograph represents :

Options :

1. volume of runoff
2. volume of rainfall
3. area of watershed
4. average rate of runoff

Question Number : 17 Question Id : 6589884290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Curve number represents :

Options :

1. Rainfall Property
2. Watershed feature
3. Runoff trend
4. Stream flow feature

Question Number : 18 Question Id : 6589884291 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The land is said to be waterlogged, if the soil pores within :

Options :

1. a depth of 40 cm is saturated

2. a depth of 60 cm is saturated
3. root zone of crops is saturated
4. soil up to ground water table is saturated

Question Number : 19 Question Id : 6589884292 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Irrigation water having an SAR value of 20 is called as :

Options :

1. very high sodium water
2. high sodium water
3. medium sodium water
4. low sodium water

Question Number : 20 Question Id : 6589884293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Alkali soils are reclaimed by :

Options :

1. leaching only
2. addition of gypsum and leaching
3. addition of gypsum only
4. provision of drainage

Question Number : 21 Question Id : 6589884294 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Long term data of rainfall is needed for the design of hydraulic structure for the purpose of :

Options :

1. Estimating accurate average
2. Removing trends in data
3. Testing homogeneity of the data
4. Estimation of rainfall magnitude with different recurrence interval

Question Number : 22 Question Id : 6589884295 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Snyder's method is used to derive the :

Options :

1. unit hydrograph
2. runoff graph
3. distribution graph
4. synthetic unit hydrograph

Question Number : 23 Question Id : 6589884296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Platy structure soils are :

Options :

1. Maximum water transmitting
2. Good for crop Production
3. Least water transmitting
4. Black in colour

Question Number : 24 Question Id : 6589884297 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydrologic Soil Group-A stands for :

Options :

1. Low runoff potential
2. Moderately low runoff potential
3. Moderately high runoff potential
4. High runoff potential

Question Number : 25 Question Id : 6589884298 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Annual maximum floods are most likely to fit in :

Options :

1. Normal distribution
2. Beta distribution
3. Gamma distribution
4. Gumbel distribution

Question Number : 26 Question Id : 6589884299 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The relationship between the discharge (Q), average depth of water (y), infiltration rate of soil (f), area to be irrigated (A) and the time required (t) to irrigate the area (A) can be given by :

Options :

1. $t = 2.3 \frac{y}{f} \log_{10} \left(\frac{Q}{Q - fA} \right)$

2. $t = 2.3 \log_{10} \left(\frac{Q}{Q - fA} \right)$

3. $t = \left(\frac{Q}{Q - fA} \right)$

$$4. \quad t = \left(\frac{A \times f}{Q} \right)$$

Question Number : 27 Question Id : 6589884300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Spacing of mole drains varies from :

Options :

1. 2 to 5 m
2. 5 to 10 m
3. 10 to 15 m
4. 15 to 20 m

Question Number : 28 Question Id : 6589884301 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following defines aridity index (AI) ?

Options :

1. $AI = \frac{PET - AET}{PET} \times 100$
2. $AI = \frac{PET}{AET} \times 100$
3. $AI = \frac{AET}{PET} \times 100$
4. $AI = \frac{AET - PET}{AET} \times 100$

Question Number : 29 Question Id : 6589884302 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a rectangular channel section, the critical depth (h_c) is given by :

Options :

1. $h_c = \sqrt{\frac{Q^2}{gb^2}}$

2. $h_c = 3\sqrt{\frac{Q^2}{b^2}}$

3. $h_c = 3\sqrt{\frac{Q^2}{gb^2}}$

4. $h_c = 3\sqrt{\frac{Q^2}{gb}}$

Question Number : 30 Question Id : 6589884303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The dimension of intrinsic permeability :

Options :

1. $M^0L^2T^{-1}$

2. $M^0L^2T^0$

3. $M^0L^2T^{-2}$

4. None of the three

Question Number : 31 Question Id : 6589884304 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Darcy's law is valid under the condition of flow :

Options :

1. Renold No. > 10

2. Renold No. < 1

3. Renold No. > 100

4. Renold No. > 1000

Question Number : 32 Question Id : 6589884305 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An instrument used for measurement of saturated hydraulic conductivity of soil is :

Options :

1. Permeameter
2. Hydrometer
3. Manometer
4. Conductivity meter

Question Number : 33 Question Id : 6589884306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The terminal velocity of rain drops is about :

Options :

1. 1 m/sec
2. 5 m/sec
3. 10 m/ sec
4. 20 m/sec

Question Number : 34 Question Id : 6589884307 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The velocity head in the case of fluid flow is the :

Options :

1. Kinetic energy per unit mass
2. Kinetic energy per unit weight
3. Kinetic energy per unit flow area

4. Kinetic energy per unit drop in water surface

Question Number : 35 Question Id : 6589884308 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

At critical condition of flow :

Options :

1. Specific energy is minimum
2. Specific force is maximum
3. Viscous force is minimum
4. Total force is maximum

Question Number : 36 Question Id : 6589884309 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the diameter of a pipe is halved, flow of water in it experiences the increase in the head loss due to friction :

Options :

1. Two times
2. Four Times
3. Ten times
4. Sixteen times

Question Number : 37 Question Id : 6589884310 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The quantity 'n' as used in Manning's formula :

Options :

1. is considered dimensionless
2. has the dimension of L

3. has the dimension of $L^{1/3}$

4. has the dimension of $L^{1/6}$

Question Number : 38 Question Id : 6589884311 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The conveyance of an open channel is directly proportional to :

Options :

1. Bed slope

2. Channel roughness

3. Discharge

4. Side slope

Question Number : 39 Question Id : 6589884312 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The numerical value of hydraulic exponent for critical flow computation in a rectangular channel is :

Options :

1. 3

2. 1

3. 0

4. 2

Question Number : 40 Question Id : 6589884313 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Froude's number of flow in an open rectangular channel 1m wide and 1m depth of flow is 1.5. The flow velocity is approximately :

Options :

1. 4.7 m/sec
2. 1 m/sec
3. 1.5 m/sec
4. 3 m/sec

Question Number : 41 Question Id : 6589884314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The head loss due to friction when water flows through a pipe is proportional to :

Options :

1. Velocity
2. Square of velocity
3. Square root of velocity
4. Reciprocal of velocity

Question Number : 42 Question Id : 6589884315 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydraulic jump takes place when the flow changes :

Options :

1. From sub critical to critical
2. From critical to super critical
3. From sub critical to super critical
4. From super critical to sub critical

Question Number : 43 Question Id : 6589884316 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In Rational formula, i stands for :

Options :

1. Intensity of rainfall
2. Hydraulic gradient
3. Runoff coefficient
4. Mean intensity of rainfall for a duration equal to time of concentration (t_c)

Question Number : 44 Question Id : 6589884317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The hydrologic flood-routing methods are :

Options :

1. Equation of continuity
2. Equation of motion only
3. Both momentum and continuity equations
4. Energy equations only

Question Number : 45 Question Id : 6589884318 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A linear reservoir is one in which ?

Options :

1. Volume varies linearly with elevation
2. The storage varies linearly with the outflow rate
3. The storage varies linearly with time
4. The storage varies linearly with the inflow rate

Question Number : 46 Question Id : 6589884319 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'MUSLE' is an improved form of 'USLE' where rainfall energy factor is replaced by :

Options :

1. A sediment factor
2. Rainfall magnitude
3. Another energy factor
4. A runoff factor

Question Number : 47 Question Id : 6589884320 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Small watersheds are those in which ?

Options :

1. Runoff is major flow
2. Overland flow is major flow
3. Base flow is major flow
4. All of the three

Question Number : 48 Question Id : 6589884321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a 10 ha micro watershed produces runoff @ 33% of rainfall. What will be total volume of runoff from a 3 cm rainfall :

Options :

1. 10 m^3
2. 100 m^3

3. 1000 m^3

4. 10000 m^3

Question Number : 49 Question Id : 6589884322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The contour interval between head end and tail end of a 50 m long field is 0.5 m. What is the average slope of the field ?

Options :

1. 0.5%

2. 1.0%

3. 1.5%

4. 2.0%

Question Number : 50 Question Id : 6589884323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The normal cut fill ratio in a land leveling operation is kept about :

Options :

1. 0.7

2. 1.0

3. 1.3

4. 2.0

Question Number : 51 Question Id : 6589884324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The difference between a shallow tube well and a deep tube well is on the basis of :

Options :

1. Depth of the tube well
2. Position of water table and pump
3. Type of aquifer
4. Depth of aquifer

Question Number : 52 Question Id : 6589884325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a chute spillway, the flow is usually :

Options :

1. Uniform
2. Subcritical
3. Super-critical
4. Critical

Question Number : 53 Question Id : 6589884326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The line joining the static water levels in several wells, excavated through a confined aquifer, is known as the :

Options :

1. cone of depression
2. piezometric surface
3. perched water table
4. hypsometric curve

Question Number : 54 Question Id : 6589884327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A centrifugal pump delivers 10 L/sec water against a total head of 7.5 m for 10 hours. The energy consumption is :

Options :

1. 1.00 KWh
2. 7.46 KWh
3. 10.00 KWh
4. 74.6 KWh

Question Number : 55 Question Id : 6589884328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

To derive the Hooghoudt's equation the following assumption is made "The hydraulic gradient at any point is equal to the slope of the water table above that point and the water flows horizontally". This assumption is known as :

Options :

1. Cypress Creek
2. Kirkham
3. Dupuit-Forchheimer
4. Glover Dumm

Question Number : 56 Question Id : 6589884329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Drainage at a rate of 1.0 Lps per hectare is equivalent to a drainage coefficient of :

Options :

1. 100 mm/day
2. 4.32 mm/day
3. 8.64 mm/day

4. 10.0 mm/day

Question Number : 57 Question Id : 6589884330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The centrifugal pumps are used for pumping water when :

Options :

1. Both head and discharge are high
2. Discharge is high and head is low
3. Both discharge and head low
4. Discharge is low and head is high

Question Number : 58 Question Id : 6589884331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When two centrifugal pumps are operated in series the discharge :

Options :

1. increases
2. decreases
3. remains constant
4. none of the three

Question Number : 59 Question Id : 6589884332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The maximum depth from which a centrifugal pump can lift water is about :

Options :

1. 10 m
2. 20 m

3. 30 m

4. 40 m

Question Number : 60 Question Id : 6589884333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pumps used in surface drainage works are of the type :

Options :

1. Centrifugal

2. Reciprocating

3. Axial flow

4. Treadle

Question Number : 61 Question Id : 6589884334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pumps are selected based on :

Options :

1. Pump diameter

2. Pump design curve

3. Pump characteristic curve

4. Well curve

Question Number : 62 Question Id : 6589884335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Dugwells in hard rock region can be made to yield more water by :

Options :

1. Managing pumping and recovery times

2. Pumping after full recuperation
3. Making the well circular
4. Cleaning the well

Question Number : 63 Question Id : 6589884336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Yield of a well per unit of draw down is called :

Options :

1. Specific capacity
2. Specific yield
3. Transmissibility
4. Well yield

Question Number : 64 Question Id : 6589884337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The power consumption of a centrifugal pump varies as :

Options :

1. First power of speed
2. Second power of speed
3. Third power of speed
4. Fourth power of speed

Question Number : 65 Question Id : 6589884338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pressure plate apparatus is used for the measurement of soil moisture tension upto :

Options :

1. 10 bars
2. 15 bars
3. 50 bars
4. 100 bars

Question Number : 66 Question Id : 6589884339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A soil which has exchangeable sodium percentage above 15 and EC of the saturation extract greater than 4 mmhos/cm is called :

Options :

1. Saline alkali soil
2. Non-saline alkali soil
3. Saline soil
4. Sodic soil

Question Number : 67 Question Id : 6589884340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the electrical conductivity of irrigation and drainage water is 0.2 mmhos/cm and 0.4 mmhos/cm respectively, the leaching requirement will be equal to :

Options :

1. 80%
2. 50%
3. 20%
4. 40%

Question Number : 68 Question Id : 6589884341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Surge irrigation refers to :

Options :

1. Supplying total water quickly and in one go
2. Supplying water in several wetting and drying cycles
3. Quickly flushing out standing water from field
4. Supplying water slowly but continuously

Question Number : 69 Question Id : 6589884342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the soil moisture of 50 cm deep soil in a field is to be raised from 15 per cent to its field capacity at 30 per cent, irrigation water requirement will be :

Options :

1. 5.0 cm
2. 7.5 cm
3. 15 cm
4. 25 cm

Question Number : 70 Question Id : 6589884343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a standard design of drip irrigation system, the maximum allowed pressure variation within the entire network is :

Options :

1. 5%
2. 10%

3. 15%

4. 20%

Question Number : 71 Question Id : 6589884344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

10 cm of irrigation is applied to a field, 1 cm goes as runoff loss and 2 cm goes as percolation loss. The application efficiency is :

Options :

1. 90%

2. 80%

3. 70%

4. 60%

Question Number : 72 Question Id : 6589884345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The cumulative infiltration equation is $I = 2t^{0.5}$ (I in cm, t in minutes). The instantaneous infiltration rate at 4 minutes from start will be :

Options :

1. 0.1 cm/min

2. 0.5 cm/min

3. 1.0 cm/min

4. 1.5 cm/min

Question Number : 73 Question Id : 6589884346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Laminar flow is usually governed by :

Options :

1. Stock's law
2. Rational law
3. Darcy's law
4. Power law

Question Number : 74 Question Id : 6589884347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An irrigation of 10 cm depth with electric conductivity of 2dS/m water would add how much salt in one hectare :

Options :

1. 640 Kg
2. 1000 Kg
3. 1280 kg
4. 2000 Kg

Question Number : 75 Question Id : 6589884348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the discharge of drainage canal is 1000 liter/sec and drainage area is 360 hectares, the drainage coefficient will be :

Options :

1. 2.4 cm
2. 0.24 cm
3. 24 cm
4. 3 cm

Question Number : 76 Question Id : 6589884349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The portion of a chute spillway which is known as its control structure, is ?

Options :

1. low ogee weir
2. chute channel
3. approach channel leading the water from the reservoir to the ogee weir
4. stilling basin at its bottom

Question Number : 77 Question Id : 6589884350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The spillway which may sometimes be called a 'waste weir' is ?

Options :

1. an ogee spillway
2. a trough spillway
3. a shaft spillway
4. all of the three

Question Number : 78 Question Id : 6589884351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The standard Symon's type rain gauge has a collecting area of diameter :

Options :

1. 500 mm
2. 127 mm
3. 254 mm
4. 100 mm

Question Number : 79 Question Id : 6589884352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Unit of runoff coefficient in rational formula is :

Options :

1. m
2. dimensionless
3. mm
4. cm

Question Number : 80 Question Id : 6589884353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Many artesian wells are found in :

Options :

1. Tarai region
2. Vindhyaachal region
3. Shivalik region
4. Thar desert

Question Number : 81 Question Id : 6589884354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The most widely used steady state sub surface drainage design relation is :

Options :

1. Kirkham equation
2. Hooghoudt's equation
3. Schilfgarde equation
4. Israelson equation

Question Number : 82 Question Id : 6589884355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An 'S' curve in hydrology is obtained by summing "

Options :

1. rainfall
2. snowmelts
3. runoff
4. evaporation

Question Number : 83 Question Id : 6589884356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The capillary fringe also called :

Options :

1. suspended water
2. vadose water
3. gravity water
4. all of the three

Question Number : 84 Question Id : 6589884357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In submersible pump installation in a well :

Options :

1. motor is placed on the top at ground surface
2. motor is placed below the water table
3. motor is kept floating on water surface
4. motor is not required in a submersible pump

Question Number : 85 Question Id : 6589884358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Removal of a thin and fairly uniform layer of the soil from the land surface by runoff water is called :

Options :

1. Torrent erosion
2. Sheet erosion
3. Glacial erosion
4. Geologic erosion

Question Number : 86 Question Id : 6589884359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Erosivity refers to the potential ability of :

Options :

1. Soil to get erode
2. Rain drops and blowing wind to erode the particles
3. Wind to erode particles
4. Rain to erode particles

Question Number : 87 Question Id : 6589884360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Shelter belts are constructed by :

Options :

1. One row
2. Two rows
3. More than 2 rows

4. None of the three

Question Number : 88 Question Id : 6589884361 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

For vertical cut, the width of bench terrace is :

Options :

1. $W = (D.S)/100$
2. $W = (100S)/D$
3. $W = 100D/S$
4. $W = S/100$

Question Number : 89 Question Id : 6589884362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Top bench terraces are suitable for areas receiving :

Options :

1. medium uniformly distributed rainfall with medium permeable deep soils
2. heavy rainfall with permeable deep soils
3. low rainfall with permeable deep soils
4. very high rainfall with permeable shallow soils

Question Number : 90 Question Id : 6589884363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The movement of soil particles having sizes in the range of 0.05 to 0.5 mm through a series of bounces is known as :

Options :

1. Surface creep
2. Surface transportation

3. Saltation
4. Suspension

Question Number : 91 Question Id : 6589884364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Time-domain reflectometry (TDR) is the method of monitoring :

Options :

1. Soil moisture
2. Vapour pressure
3. Salt concentration
4. Solar radiation

Question Number : 92 Question Id : 6589884365 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The discharge rate of drip emitter usually ranges from :

Options :

1. 2-10 liters/day
2. 2-10 liters/hr
3. 2-10 liters/min
4. 2-10 liters/sec

Question Number : 93 Question Id : 6589884366 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Froude number is the ratio of the :

Options :

1. inertial force to shear force

2. inertial force to gravitational force
3. inertial force to viscous force
4. viscous force to gravitational force

Question Number : 94 Question Id : 6589884367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Flow in irrigation channel is considered as :

Options :

1. gradually varied
2. spatially varied
3. rapidly varied
4. uniform

Question Number : 95 Question Id : 6589884368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The pump efficiency, motor efficiency and drive efficiency of a centrifugal pump set are 80%, 90% and 75%, respectively. The overall efficiency of the pump set is :

Options :

1. 50%
2. 54%
3. 75%
4. 90%

Question Number : 96 Question Id : 6589884369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A 80% dependable rainfall means :

Options :

1. magnitude of rainfall equal to 80% of normal
2. rainfall will be equal to or more than the given value 80% of the time
3. chances of rainfall are 80%
4. rainfall will be less than the given value 80% of the time

Question Number : 97 Question Id : 6589884370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Water horse power of a centrifugal pump of 10 litre/sec capacity and 38 meter total head will be equal to :

Options :

1. 3
2. 4
3. 5
4. 6

Question Number : 98 Question Id : 6589884371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is a most popular soil infiltration model ?

Options :

1. Tank model
2. MUSLE model
3. Horton's model
4. CREST model

Question Number : 99 Question Id : 6589884372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Crop factor is the ratio between :

Options :

1. Pan evaporation and PET
2. Reference crop ET and actual ET
3. PET and reference crop ET
4. Actual crop ET

Question Number : 100 Question Id : 6589884373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Canopy factor is the ratio between :

Options :

1. Canopy area and land area
2. Canopy area and row spacing
3. Plant height and Plant area
4. Canopy temperature and ambient temperature

Question Number : 101 Question Id : 6589884374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Lands having slopes of more than 10 per cent should be cultivated only after making :

Options :

1. Contour trenches
2. Contour benches
3. Broad based terraces

4. Bench terraces

Question Number : 102 Question Id : 6589884375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Porosity of surface soil typically decreases when the soil particle size :

Options :

1. Decreases
2. Gets stabilized
3. Increases
4. Gets minimized

Question Number : 103 Question Id : 6589884376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A drop spillway is used for :

Options :

1. Erosion control
2. Flow measurement
3. Flow diversion
4. Flow regulation

Question Number : 104 Question Id : 6589884377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydrologic cycle is driven by :

Options :

1. Winds

2. Sun
3. Rotation of earth
4. Water level in ocean

Question Number : 105 Question Id : 6589884378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

India has world's water resources.

Options :

1. 1%
2. 4%
3. 10%
4. 20%

Question Number : 106 Question Id : 6589884379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Overall impact of climate change will :

Options :

1. Have no effect on water resources
2. Water resources are likely to get scarce
3. Water resources will increase
4. Nothing can be predicted

Question Number : 107 Question Id : 6589884380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydroponics is :

Options :

1. Growing plants in water solution
2. Growing plants without water
3. Carrying plants on pony's back
4. Water carrying ponies

Question Number : 108 Question Id : 6589884381 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A reflex valve is used in a centrifugal pumping system so as to :

Options :

1. Keep it primed
2. Measure the flow
3. Give strength at its foot
4. Control water flow in to pumping system

Question Number : 109 Question Id : 6589884382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The average annual rainfall of India is about :

Options :

1. 1190 mm
2. 1250 mm
3. 1290 mm
4. 1350 mm

Question Number : 110 Question Id : 6589884383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Isobath maps indicated :

Options :

1. area affected by high water table problems
2. flow of water
3. extent of salinity
4. amount of ground water

Question Number : 111 Question Id : 6589884384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Media filter is also known as :

Options :

1. screen filter
2. disc filter
3. sand filter
4. hydrocyclone filter

Question Number : 112 Question Id : 6589884385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Precise land leveling can be done using a :

Options :

1. wooden float
2. spirit level
3. scraper blade
4. laser land leveler

Question Number : 113 Question Id : 6589884386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Vertisols is a term used to define :

Options :

1. very light soils
2. light soils
3. heavy clay soils
4. loam soils

Question Number : 114 Question Id : 6589884387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ground water pollution is primarily caused by

Options :

1. Nitrogenous fertilizers
2. Phosphate fertilizers
3. Potassium fertilizers
4. Micronutrients supplements

Question Number : 115 Question Id : 6589884388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which river is mainly associated with the Sardar Sarover Project ?

Options :

1. Ganga
2. Krishna

3. Brahmaputra
4. Narmada

Question Number : 116 Question Id : 6589884389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Infiltration is measured by :

Options :

1. Cylindrical metal rings
2. USWB Class A Pan
3. Lysimeter
4. Rain gauge

Question Number : 117 Question Id : 6589884390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is the most accurate instrument for measuring stream flow velocity ?

Options :

1. Coshocton wheel
2. Dethridge wheel
3. Current meter
4. Surface float

Question Number : 118 Question Id : 6589884391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

IW/CPE ratio is used for :

Options :

1. Scheduling irrigations
2. Scheduling fertigation
3. Scheduling chemigation
4. Scheduling tillage operations

Question Number : 119 Question Id : 6589884392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Tensiometer can effectively measure soil :

Options :

1. 0.0 to 1.0 atmosphere
2. 0.0 to 0.8 atmosphere
3. 0.0 to 15 atmosphere
4. 15 to 30 atmosphere

Question Number : 120 Question Id : 6589884393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Seepage losses in canals are presented in terms of :

Options :

1. Per cent
2. Cumecs
3. Cumecs per square meter of wetted surface area
4. Cumecs per million square meter of wetted surface area