

Water Resources Development 25th Nov 2016 Shift 1

Roll No:	www.ErForum.Net
Participant Name:	ErForum
Test Center Name:	Engineers' Forum
Test Date:	25/11/2016
Test Time:	9:00 AM - 11:00 AM
Subject:	JUNIOR ENGINEER CIVIL
Marks Obtained:	

Section : General Awareness

Q.1 For safety the fuse wire used in the mains for household supply of electricity must be made of metal having

- Ans
- ☒ 1. Low specific heat
 - ☒ 2. Low melting point
 - ☒ 3. high resistance
 - ☒ 4. high melting point

Question ID : 3396881635

Status : Answered

Chosen Option : 4

Q.2 Which country is set to become the 1st ever cashless country in the world

- Ans
- ☒ 1. Austria
 - ☒ 2. Singapore
 - ☒ 3. Sweden
 - ☒ 4. Netherland

Question ID : 3396881624

Status : Answered

Chosen Option : 3

Q.3 Parallel Lines has same slopes, hence they have same

- Ans
- ☒ 1. B) Distance
 - ☒ 2. A) & C) both
 - ☒ 3. C) Angle with Horizontal
 - ☒ 4. A) Tan θ

Question ID : 3396881615

Status : Answered

Chosen Option : 2

Q.4 Which is the Highest Gallantry award in India?

- Ans
- ☒ 1. Kirti Chakra
 - ☒ 2. Vir chakra
 - ☒ 3. Param Vishistha Seva Medal
 - ☒ 4. Param Vir Chakra

Question ID : 3396881603

Status : Answered

Chosen Option : 4

Q.5 Complete the Given series of numbers by choosing the correct alternative :- 3, 12, 11, 44, 42, 168, ?, ?

- Ans
- ☒ 1. 165, 660
 - ☒ 2. 170, 680
 - ☒ 3. 167, 334
 - ☒ 4. 165, 166

Question ID : 3396881629

Status : Answered

Chosen Option : 1

Q.6 This part of Maharashtra included in independent India in the year 1948

Ans

Question ID : 3396881605

Status : Answered

- ☐ 1. Vidarbha
☐ 2. Khandesh
☒ 3. Marathwada
☐ 4. Goa

Chosen Option : 3

Q.7 Atomic Number 'Z' of Element is

- Ans ☐ 1. Mass Number
☒ 2. Number of protons found in the nucleus of an Atom
☐ 3. Neutron Number
☐ 4. Atomic weight of element

Question ID : 3396881640

Status : Answered

Chosen Option : 2

Q.8 Find out the similar Term :- B, E, H, K, N, ?, ?

- Ans ☒ 1. Q, T
☐ 2. P, T
☐ 3. P, R
☐ 4. Q, S

Question ID : 3396881627

Status : Answered

Chosen Option : 1

Q.9 If length of Diagonal of a square is 8 cm then the length of side is-----cm.

- Ans ☒ 1. 5.66 cm
☐ 2. 4.2 cm
☐ 3. 8 cm
☐ 4. 16 cm

Question ID : 3396881607

Status : Marked For Review

Chosen Option : 2

Q.10 Which of the following has become first Indian State to allow members of state legislature to raise "on-line" questions?

- Ans ☐ 1. Gujrat
☒ 2. Maharashtra
☐ 3. Karnataka
☐ 4. Andhra Pradesh

Question ID : 3396881620

Status : Answered

Chosen Option : 1

Q.11 Find out a missing Numerical :- 4, 3, ?, 9, 64, 27, 256

- Ans ☐ 1. 12
☒ 2. 16
☐ 3. 10
☐ 4. 8

Question ID : 3396881628

Status : Answered

Chosen Option : 2

Q.12 The ozone layer restricts

- Ans ☐ 1. Infrared Radiation
☒ 2. Ultraviolet radiation
☐ 3. Visible light
☐ 4. X-rays & Gamma rays

Question ID : 3396881634

Status : Answered

Chosen Option : 2

Q.13 Earthquakes occur when there is a sudden release of energy in earth's

- Ans ☒ 1. Upper mantle
☐ 2. Inner core

Question ID : 3396881638

Status : Answered

Chosen Option : 2

- ☒ 3. Outer Core
- ☒ 4. None of these

Q.14 PHELPS Michael of USA won the maximum Gold Medals in sport----

- Ans ☒ 1. Swimming
- ☒ 2. Tennis
 - ☒ 3. Artistic Gymnastics
 - ☒ 4. Athletics

Question ID : 3396881625
Status : Answered
Chosen Option : 1

Q.15 During Independence movement 'Pune Karar' (Pune pact) in 1932 took place between----

- Ans ☒ 1. Dr. Babasaheb Ambedkar and Gandhiji
- ☒ 2. Dr. Subhash Chandra Bose and Gandhiji
 - ☒ 3. Siaman and Gandhiji
 - ☒ 4. Irwin and Gandhiji

Question ID : 3396881626
Status : Answered
Chosen Option : 1

Q.16 Find slope of line passing through the points with co-ordinates (1, 2) and (4,3)

- Ans ☒ 1. 3
- ☒ 2. 1/3
 - ☒ 3. 1
 - ☒ 4. 1/2

Question ID : 3396881617
Status : Answered
Chosen Option : 3

Q.17 Modern Periodic table of Elements is invented by

- Ans ☒ 1. Mendeleev
- ☒ 2. Newlands
 - ☒ 3. None of the above
 - ☒ 4. Henry Mosle

Question ID : 3396881639
Status : Marked For Review
Chosen Option : 2

Q.18 "Kyoto Protocol" is an International Agreement linked to the United Nations framework convention on issues of

- Ans ☒ 1. Climate Change
- ☒ 2. Population of world
 - ☒ 3. Immigration policy
 - ☒ 4. Nuclear Weapon use

Question ID : 3396881623
Status : Answered
Chosen Option : 4

Q.19

Find out the mean of values of 'x' for given table -

Value of x	2	4	6
Frequency	1	3	4

- Ans ☒ 1. 4
- ☒ 2. 9.5
 - ☒ 3. 8/3

Question ID : 3396881613
Status : Answered
Chosen Option : 4

✓ 4. 4.75

Q.20 India's first satellite is named after

- Ans ✓ 1. Aryabhata
✗ 2. Bhaskara II
✗ 3. Bhaskara I
✗ 4. Albert Einstein

Question ID : 3396881637

Status : Answered

Chosen Option : 1

Q.21 India has largest deposits of -----in the world.

- Ans ✗ 1. Copper
✗ 2. Gold
✓ 3. Mica
✗ 4. None of the above

Question ID : 3396881636

Status : Answered

Chosen Option : 2

Q.22

Find X if,

$$\begin{vmatrix} 5 & 4 & 2 \\ 6 & 1 & 7 \\ 3 & 9 & x \end{vmatrix} = 0$$

- Ans ✗ 1. x = 6.789
✗ 2. x = 6.579
✓ 3. x = -6.789
✗ 4. x = 6.879

Question ID : 3396881609

Status : Answered

Chosen Option : 1

Q.23 Diameter of wheel is 1.4 m then number of rounds it will take to travel a distance of 1.1 km will be-----

- Ans ✗ 1. 500
✓ 2. 250
✗ 3. 1100
✗ 4. 4.4

Question ID : 3396881608

Status : Answered

Chosen Option : 2

Q.24 Find the simple interest on Rs. 10,000/- @ the rate of 24% per annum for a period of 9 months.

- Ans ✗ 1. 1200
✓ 2. 1800
✗ 3. None of the these
✗ 4. 2400

Question ID : 3396881610

Status : Answered

Chosen Option : 2

Q.25 Who was the first Indian Chief of Army staff of the Indian Army

- Ans ✓ 1. Gen.K.M.Cariappa
✗ 2. None of the above
✗ 3. General Maharaja Rajendra Singhji
✗ 4. Vice-Admiral R.D.katari

Question ID : 3396881622

Status : Answered

Chosen Option : 1

Q.26 "कोसला" कादंबरीचे लेखक श्री.-----सन् २०१४ च्या "ज्ञानपीठ" पुरस्काराने सन्मानित करण्यात आले होते.

Question ID : 3396881631

- Ans
- ☒ 1. ना.स.इनामदार
 - ☒ 2. जी.ए.कुलकर्णी
 - ☒ 3. दया पवार
 - ☒ 4. भालचंद्र नेमाडे

Status : **Answered**
Chosen Option : 4

Q.27 Solve a simultaneous equation for value of x & y, $[(2x-3y)=1]$ and $[(x+y)=3]$

- Ans
- ☒ 1. (1, 2)
 - ☒ 2. (3, 2)
 - ☒ 3. (5, 1)
 - ☒ 4. (2, 1)

Question ID : 3396881612
Status : **Answered**
Chosen Option : 4

Q.28 The members of the Rajyasabha are elected by

- Ans
- ☒ 1. Lok sabha
 - ☒ 2. Elected members of the State and Territorial Legislature
 - ☒ 3. The people by voting
 - ☒ 4. Elected members of the Legislative Council

Question ID : 3396881604
Status : **Answered**
Chosen Option : 2

Q.29 "लागे जन्मावे पुन्हा" या कविता संग्रहाचे कवी -----

- Ans
- ☒ 1. केशवसुत
 - ☒ 2. मंगेश पाडगांवकर
 - ☒ 3. विंदा करंदीकर
 - ☒ 4. कुसुमाग्रज

Question ID : 3396881633
Status : **Answered**
Chosen Option : 1

Q.30 What happens when a ship crosses The International Date Line from West to East?

- Ans
- ☒ 1. It gains half a day
 - ☒ 2. It loses one day
 - ☒ 3. It gains one day
 - ☒ 4. It loses half a day

Question ID : 3396881618
Status : **Answered**
Chosen Option : 1

Q.31 Length of An arc with angle θ and radius r is.

- Ans
- ☒ 1. $(\theta/360) \cdot 2\pi \cdot r$
 - ☒ 2. $(\theta/180) \cdot \pi \cdot r^2$
 - ☒ 3. $(\theta/180) \cdot 2\pi \cdot r$
 - ☒ 4. $(\theta/360) \cdot \pi \cdot r$

Question ID : 3396881616
Status : **Answered**
Chosen Option : 4

Q.32 What is name of the World's Largest & Sensitive Radio telescope, has installed in Pingtang in China.

- Ans
- ☒ 1. FAST
 - ☒ 2. SPEED
 - ☒ 3. JET

Question ID : 3396881621
Status : **Answered**
Chosen Option : 4

✗ 4. SWIFT

Q.33 "ययाती" कादंबरीचे लेखक -----

- Ans
- ✗ 1. वि.वा.शिरवाडकर
 - ✗ 2. जयवंत दळवी
 - ✗ 3. ना.सी.फडके
 - ✓ 4. वि.स.खांडेकर

Question ID : 3396881632

Status : Answered

Chosen Option : 4

Q.34

Complete the cell which is left empty:

9	10	24
10	15	50
12	20	?

- Ans
- ✓ 1. 74
 - ✗ 2. 52
 - ✗ 3. 56
 - ✗ 4. 96

Question ID : 3396881630

Status : Answered

Chosen Option : 1

Q.35 World Environment day is being observed throughout the world on

- Ans
- ✗ 1. 1st December
 - ✗ 2. 8th August
 - ✗ 3. 7th April
 - ✓ 4. 5th June

Question ID : 3396881606

Status : Answered

Chosen Option : 4

Q.36 In cricket two sets of Wickets are

- Ans
- ✗ 1. 24 Yard Apart
 - ✗ 2. 18 yard Apart
 - ✗ 3. 11 Yard Apart
 - ✓ 4. 22 Yard Apart

Question ID : 3396881619

Status : Answered

Chosen Option : 4

Q.37 Complete the sentence : He gave me additional-----of Rs. 100 a month by the -----of the commissioner

- Ans
- ✗ 1. salary ; admittance
 - ✓ 2. Allowance ; permission
 - ✗ 3. Payment ; agreement
 - ✗ 4. Pay ; allowance

Question ID : 3396881641

Status : Answered

Chosen Option : 1

Q.38 In a right angle triangle if one side is $(\sqrt{3})/2$ times the Hypoteneous then angle opposite to that side is

- Ans
- ✗ 1. 45°

Question ID : 3396881614

Status : Answered

✓ 2. 60°

✗ 3. 15°

✗ 4. 30°

Chosen Option : 1

Q.39 Complete the sentence : The Indian railways have yet to-----an effective mechanism to avert a series of-----leading to horrifying tragedy.

Ans ✓ 1. evolve ; lapses

✗ 2. improve ; omission

✗ 3. develop ; mistake

✗ 4. contrive ; errors

Question ID : 3396881642

Status : Answered

Chosen Option : 3

Q.40 Father is now three times as old as his son. Five years back, he was 4 times as old as his son. The age of son is----

Ans ✓ 1. 15

✗ 2. 12

✗ 3. 18

✗ 4. 20

Question ID : 3396881611

Status : Answered

Chosen Option : 4

Section : Civil Engineering

Q.1 Mass of soil removed from core cutter having internal volume of 1 litre is 220 gm, then bulk density of that soil will be

Ans ✗ 1. 22 gm/cc

✗ 2. 0.22 gm/cc

✗ 3. 220gm/cc

✓ 4. 2.2 gm/cc

Question ID : 3396881652

Status : Answered

Chosen Option : 2

Q.2 An egg shaped section of sewer

Ans ✗ 1. Is economical than circular section

✓ 2. Provides self cleansing velocity at low discharges

✗ 3. Is easy to construct

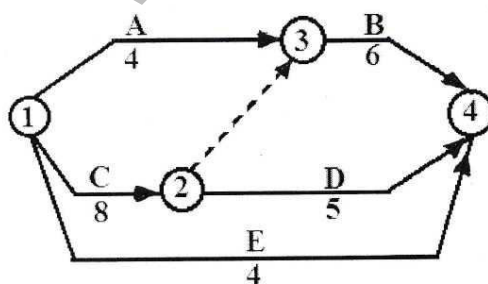
✗ 4. Is more stable than circular section

Question ID : 3396881697

Status : Answered

Chosen Option : 2

Q.3 Refer the network for a small project given herewith. Figures below activity labels indicate activity duration in Weeks. Then total time required for the project is,



Network For The Project

Ans ✗ 1. 10 weeks

✗ 2. 13 weeks

Question ID : 3396881702

Status : Answered

Chosen Option : 3

✓ 3. 14 weeks

✗ 4. 27 weeks

Q.4 A machine is purchased for Rs. 10,000,00/- and has an estimated life of 10 years. The salvage value at the end of 10 years is Rs. 1,50,000/-. The book value of the machine at the end of 5 years using general straight line method of evaluation of depreciation is

Ans ✗ 1. Rs. 6,50,000/-

✓ 2. Rs. 5,75,000/-

✗ 3. Rs. 8,50,000/-

✗ 4. Rs. 4,75,000/-

Question ID : 3396881686

Status : Answered

Chosen Option : 3

Q.5 If N is Rugosity co-efficient, S is slope of canal bed and R is Hydraulic mean depth, then Manning's formula to calculate velocity of flow is

Ans

✓ 1. $\frac{1}{N} R^{2/3} S^{1/2}$

✗ 2. $\frac{1}{N} R^{1/2} S^{1/2}$

✗ 3. $\frac{1}{N} R^{2/3} S^{2/3}$

✗ 4. $\frac{1}{N} R^{1/2} S^{1/3}$

Question ID : 3396881672

Status : Answered

Chosen Option : 4

Q.6 If ratio of effective length to lateral dimension for a RCC column exceeds 12 then column shall be designed as

Ans ✗ 1. An eccentrically loaded column

✓ 2. A long column

✗ 3. A short column

✗ 4. An axially loaded column

Question ID : 3396881684

Status : Answered

Chosen Option : 2

Q.7 Cumulative volume in MCU.m against MDDL and FRL are 10 MCU.m and 2000 MCU.m, then live storage will be

Ans ✓ 1. 1990 MCU.m

✗ 2. 20000 MCU.m

✗ 3. 200 MCU.m

✗ 4. 2010 MCU.m

Question ID : 3396881671

Status : Answered

Chosen Option : 1

Q.8 If flow characteristic at any given time remain same at all sections of the flow, it is called as

Ans ✗ 1. Unsteady flow

✗ 2. steady flow

✗ 3. Irrotational Flow

✓ 4. Uniform flow

Question ID : 3396881691

Status : Answered

Chosen Option : 4

Q.9 Sum total of volumes of dry ingredients of cement concrete for 1 Cu.m of concrete in place will be approximately

Ans ✗ 1. 1.6 Cu.m

Question ID : 3396881688

Status : Answered

Chosen Option : 4

- ☐ 2. 1.25 Cu.m
- ☐ 3. 1 Cu.m
- ☒ 4. 1.5 Cu.m

Q.10 Which of the following methods is most accurate for the determination of the water content of soil?

- Ans ☐ 1. Pycnometer method
- ☐ 2. Sand bath method
- ☐ 3. Torsion Balance method
- ☒ 4. Oven drying method

Question ID : 3396881651

Status : Answered

Chosen Option : 4

Q.11 Excessive camber on pavement may cause

- Ans ☒ 1. Both (A) and (B)
- ☐ 2. None of (A) and (B)
- ☐ 3. B) Slip of the speedy vehicles
- ☐ 4. A) Erosion of the shoulders & side slopes

Question ID : 3396881699

Status : Answered

Chosen Option : 1

Q.12 Shear buckling of web in steel plate girder is prevented by

- Ans ☐ 1. Horizontal stiffener at neutral axis
- ☐ 2. None of these
- ☐ 3. Bearing stiffener
- ☒ 4. Intermediate vertical stiffener

Question ID : 3396881685

Status : Answered

Chosen Option : 4

Q.13 Which of the following point shall be given more weightage while selecting site for a minor bridge when there is no special problem in bridge design.

- Ans ☐ 1. Good site for bridge proper
- ☐ 2. Both alignment of approaches & good bridge site
- ☐ 3. None of these
- ☒ 4. Alignment of approaches

Question ID : 3396881701

Status : Answered

Chosen Option : 2

Q.14 A construction method in which concrete is poured without interruption in forms moving horizontally or vertically is known as

- Ans ☐ 1. Gunnitng
- ☐ 2. Shotcreting
- ☐ 3. Colegrouting
- ☒ 4. Slip forming

Question ID : 3396881689

Status : Answered

Chosen Option : 1

Q.15 The apparatus used to determine water content required to prepare cement water paste of standard consistency is

- Ans ☐ 1. Blain's air permeability apparatus
- ☐ 2. Le Chatelier's apparatus
- ☒ 3. Vicat's apparatus
- ☐ 4. Any of these

Question ID : 3396881661

Status : Answered

Chosen Option : 3

Q.16 The Plane Table method suitable to establish a station with respect to the pre-established stations in nearby vicinity is the method of

- Ans ☐ 1. Intersection

Question ID : 3396881644

Status : Answered

Chosen Option : 3

- ☒ 2. Traversing
☒ 3. Resection
☒ 4. Radiation

Q.17 When High head of water is available, then most suitable turbine used to convert hydraulic energy into mechanical energy will be

- Ans ☒ 1. Kaplan turbine
☒ 2. Francis turbine
☒ 3. Pelton wheel turbine
☒ 4. Reaction turbine

Question ID : 3396881696

Status : Answered

Chosen Option : 4

Q.18 At Vena contracta, a pressure of liquid surrounding the jet in case of freely falling jet will be

- Ans ☒ 1. Vacuum pressure
☒ 2. Vapour pressure
☒ 3. Atmospheric pressure
☒ 4. Absolute pressure

Question ID : 3396881695

Status : Answered

Chosen Option : 3

Q.19 Periodical payment for repayment of capital amount invested in a property for a specific period is called as

- Ans ☒ 1. Revaluation
☒ 2. Annuity
☒ 3. Sinking fund
☒ 4. Depreciation

Question ID : 3396881668

Status : Answered

Chosen Option : 2

Q.20 Spillway structure is provided

- Ans ☒ 1. For safely releasing excess water from reservoir
☒ 2. To destroy excess energy of water at upstream of the reservoir
☒ 3. For releasing designed discharge in canal system
☒ 4. To store excess water temporarily in the reservoir

Question ID : 3396881674

Status : Answered

Chosen Option : 1

Q.21 During construction of concrete structures, shuttering and scaffolding is designed based on the

- Ans ☒ 1. Live load & Dead load of final structure
☒ 2. Foundation of substructure
☒ 3. Load of fresh concrete and live load during construction
☒ 4. Grade of Concrete

Question ID : 3396881673

Status : Answered

Chosen Option : 3

Q.22 FB of line QR corrected for local attraction is $358^{\circ}45'$. It's observed BB is $177^{\circ}15'$. Then correction for local attraction at station R will be,

- Ans ☒ 1. a) $+1^{\circ}30'$
☒ 2. Any of (a) or (b)
☒ 3. b) $-1^{\circ}30'$
☒ 4. None of (a) or (b)

Question ID : 3396881645

Status : Answered

Chosen Option : 3

Q.23 Minimum grade of concrete recommended by IS 456 for reinforced concrete works under mild exposure condition is

- Ans ☒ 1. M25

Question ID : 3396881666

Status : Answered

Chosen Option : 4

- ☐ 2. M30
☐ 3. M35
☒ 4. M20

Q.24 Electronic Total station instrument generates the survey data in ---- format

- Ans ☐ 1. Analog
☒ 2. Digital
☐ 3. Neither analog nor digital
☐ 4. Both analog & digital

Question ID : 3396881649

Status : Answered

Chosen Option : 2

Q.25 The attrition test on stone is performed to determine

- Ans ☐ 1. Crushing strength
☒ 2. Resistance to grinding action
☐ 3. Toughness
☐ 4. Resistance to action of weathering agencies

Question ID : 3396881659

Status : Answered

Chosen Option : 2

Q.26 The magnitude of shear force at left hand support of a simply supported beam of span 4m, carrying central point load of 20 kN and uniformly distributed load of 10 kN/m all over its span is equal to

- Ans ☐ 1. 25kN
☒ 2. 30kN
☐ 3. 20kN
☐ 4. 35kN

Question ID : 3396881681

Status : Answered

Chosen Option : 2

Q.27 Specific gravity of dam material is 2.4, permeability factor is 0.15 and friction factor is 0.8. If height of water of upstream is 36 m, then base width required for no sliding condition is

- Ans ☐ 1. 22 m
☐ 2. 24 m
☐ 3. 25 m
☒ 4. 20 m

Question ID : 3396881677

Status : Answered

Chosen Option : 1

Q.28 BS on CP is 2.105 m and IS on a staff station immediate next to that CP is 1.370 then there will be ---- from the CP to that IS station.

- Ans ☐ 1. Any of (a) or (b)
☐ 2. None of (a) or (b)
☒ 3. b) Rise of 0.735 m
☐ 4. a) Fall of 0.735 m

Question ID : 3396881646

Status : Answered

Chosen Option : 3

Q.29 Which of the following cement shall be used for mass concrete works?

- Ans ☐ 1. Ordinary Portland cement
☐ 2. None of these
☒ 3. Low heat Portland cement
☐ 4. Rapid hardening Portland cement

Question ID : 3396881662

Status : Answered

Chosen Option : 3

Q.30 The intensity of active earth pressure at a depth of 1000 cm in dry cohesion less soil with coefficient of earth pressure of (1/3) and unit weight of 15 kN/Cum is

Question ID : 3396881658

Status : Answered

- Ans ☒ 1. 500 kN/Sqm
☒ 2. 50 kN/Sqm
☒ 3. 5000 kN/Sqm
☒ 4. 5 kN/Sqm

Chosen Option : 4

Q.31 Calculate the total quantity of plastering of 12 mm thickness in cement mortar of (1:6) for 1 brick thick wall on the both faces. Dimension of the wall is 6 m X 3 m width opening of 1 m X 2 m in it

- Ans ☒ 1. 33 Sq.m
☒ 2. 32 Sq.m
☒ 3. 36 Sq.m
☒ 4. 34 Sq.m

Question ID : 3396881676

Status : Answered

Chosen Option : 2

Q.32 Which of the following type of soil is impermeable?

- Ans ☒ 1. Sand
☒ 2. Gravel
☒ 3. Silt
☒ 4. None of these

Question ID : 3396881657

Status : Answered

Chosen Option : 4

Q.33 Flow lines & equipotential lines are

- Ans ☒ 1. Lines intersecting each other at angles of 90°
☒ 2. Lines intersecting each other at angles of 45°
☒ 3. Parallel to each other
☒ 4. Perpendicular to each other

Question ID : 3396881656

Status : Answered

Chosen Option : 4

Q.34 If velocity of flow through pipe increases two times, ratio of head losses due to sudden contraction to original head loss, will be

- Ans ☒ 1. 1/4 times
☒ 2. 4 times
☒ 3. 2 times
☒ 4. 1/2 times

Question ID : 3396881693

Status : Answered

Chosen Option : 4

Q.35 Independent North co-ordinate of station B is 54.000 m. Latitude of B C is 6.000 m southing. Then independent North co-ordinate of station C will be

- Ans ☒ 1. 48.000 m
☒ 2. 60.000 m
☒ 3. 9.000 m
☒ 4. 324.000m

Question ID : 3396881648

Status : Marked For Review

Chosen Option : 1

Q.36 A set of closed contour loops on a plan or map with contour elevations decreasing towards their common centre indicates

- Ans ☒ 1. Pond
☒ 2. Ridge
☒ 3. Hill
☒ 4. Valley

Question ID : 3396881647

Status : Answered

Chosen Option : 1

Q.37 The most suitable soil for compressed air tunnelling is

Ans

Question ID : 3396881700

- ☐ 1. Gravel
☐ 2. Silt
☐ 3. Sand
☒ 4. Clay

Status : **Answered**
Chosen Option : 2

Q.38 If size gradation curve of the soil lies above the specified size gradation curve, the soil is

- Ans ☐ 1. None of these
☒ 2. Finer than Specified gradation
☐ 3. Of specified gradation
☐ 4. Coarser than the specified gradation

Question ID : 3396881653
Status : **Answered**
Chosen Option : 2

Q.39 Degree of workability required for trench filling, in situ piling and tremie concrete works

- Ans ☒ 1. High (Slump 100 to 150 mm)
☐ 2. Medium (Slump 50 to 100 mm)
☐ 3. None of these
☐ 4. Low (Slump 25 to 75 mm)

Question ID : 3396881665
Status : **Answered**
Chosen Option : 4

Q.40 At the time of tender submission the contractor pay some amount to the agency inviting tender towards his willingness for the work is known as

- Ans ☐ 1. Security deposit
☐ 2. Caution money
☐ 3. Bank guarantee
☒ 4. Earnest money

Question ID : 3396881669
Status : **Answered**
Chosen Option : 1

Q.41 Compressive strength developed by concrete made with ordinary Portland cement at the fourteenth day after casting is about ----- % of its 28 days compressive strength.

- Ans ☐ 1. None of these
☐ 2. 37
☒ 3. 85
☐ 4. 70

Question ID : 3396881663
Status : **Answered**
Chosen Option : 3

Q.42 Vibratory rollers are more useful for compacting

- Ans ☒ 1. Sandy soils
☐ 2. Mixed soils
☐ 3. Clayey soils
☐ 4. Silty soils

Question ID : 3396881687
Status : **Answered**
Chosen Option : 1

Q.43 Number of cement bags required to produce 12 Cu.m of compacted concrete with a concrete mix having cement factor 6 is

- Ans ☒ 1. 72 Bags
☐ 2. 18 Bags
☐ 3. 6 Bags
☐ 4. 2 Bags

Question ID : 3396881664
Status : **Answered**
Chosen Option : 2

Q.44 Thissen polygon

Question ID : 3396881667

- Ans ☒ 1. Define Zone of equal precipitation
☒ 2. Define zones such that mean rainfall for each zone is equal
☒ 3. Define Zones of influence of each rainguage station
☒ 4. Define areas which contribute equal runoff at a rainguage station

Status : **Answered**
Chosen Option : 4

Q.45 Delta is the

- Ans ☒ 1. Is a discharge required at the head of a canal for irrigating one hectore of the crop
☒ 2. Constant factor for a crop irrespective of soil condition, season and method of application of water.
☒ 3. Constant factor required to work out for calculating discharge required for the crop
☒ 4. Total depth of water to be applied for a crop over base period

Question ID : 3396881670
Status : **Answered**
Chosen Option : 4

Q.46 For maximum discharge through rectangular cross section having depth of 1.5 m, the base width, will be

- Ans ☒ 1. 3.0 m
☒ 2. 1.5 m
☒ 3. 0.75 m
☒ 4. 4.50 m

Question ID : 3396881694
Status : **Answered**
Chosen Option : 1

Q.47 If strain developed in concrete and steel used in a singly reinforced concrete section is equal to its ultimate values then the section is said to be

- Ans ☒ 1. None of these
☒ 2. Under reinforced
☒ 3. Balanced
☒ 4. Over reinforced

Question ID : 3396881683
Status : **Answered**
Chosen Option : 3

Q.48 Distribution factor for members at joint in a frame depends up on

- Ans ☒ 1. Moment of inertia for that member
☒ 2. Both moment of inertia and length of that member
☒ 3. Length of that member
☒ 4. None of these

Question ID : 3396881682
Status : **Answered**
Chosen Option : 2

Q.49 Fall is provided mainly to

- Ans ☒ 1. Avoid canal in heavy banking without scarifying irrigation potential
☒ 2. Help in reducing excessive energy in step for safety of the canal
☒ 3. All the statement are true
☒ 4. Maintain canal bed slope when ground slope is falling rapidly

Question ID : 3396881675
Status : **Answered**
Chosen Option : 3

Q.50 The process of densification of soil by expulsion of air from it is known as

- Ans ☒ 1. Compaction
☒ 2. Shearing
☒ 3. Permeability
☒ 4. Consolidation

Question ID : 3396881654
Status : **Answered**
Chosen Option : 1

Q.51 For a pair of circular arcs used to form compound curve,

- Ans
- ☒ 1. There shall be a common point of tangency
 - ☒ 2. Centres must be on same side of common tangent
 - ☒ 3. All of these.
 - ☒ 4. Radii must be different

Question ID : 3396881650

Status : Answered

Chosen Option : 3

Q.52 Mercury is used in Manometer because

- Ans
- ☒ 1. Its volume changes with temperature
 - ☒ 2. It is liquid Metal
 - ☒ 3. It gives less height of column for high pressure
 - ☒ 4. It is perfect Fluid

Question ID : 3396881690

Status : Answered

Chosen Option : 3

Q.53 The soil subjected to consolidation pressure equal to the pressure to which it was subjected in past is called as

- Ans
- ☒ 1. Normally consolidated soil
 - ☒ 2. Under consolidated soil
 - ☒ 3. None of these
 - ☒ 4. Over consolidated soil

Question ID : 3396881655

Status : Answered

Chosen Option : 1

Q.54 The distance determined using paper scale from plan plotted to scale of 1:4000 is 750m. Later it was found that the scale used in determination process was 1:2000. Then the true distance will be

- Ans
- ☒ 1. 750m
 - ☒ 2. 3000m
 - ☒ 3. 375m
 - ☒ 4. 1500m

Question ID : 3396881643

Status : Answered

Chosen Option : 3

Q.55 The nature of force developed in bottom most member of a king post truss subjected to vertical down ward loads at all nodes on principal rafter is

- Ans
- ☒ 1. Compressive
 - ☒ 2. Shear
 - ☒ 3. Tensile
 - ☒ 4. Tensional

Question ID : 3396881680

Status : Answered

Chosen Option : 3

Q.56 Moment of inertia of rectangular section of depth D and breadth B about an axis passing through its CG and parallel to its depth will be equal to

- Ans
- ☒ 1. $(D.B^4)/12$
 - ☒ 2. $(B.D^3)/12$
 - ☒ 3. $(D.B^3)/12$
 - ☒ 4. $(D.B^2)/16$

Question ID : 3396881679

Status : Answered

Chosen Option : 3

Q.57 Bernoulli's theorem assumes that,

- Ans
- ☒ 1. The flow is uniform
 - ☒ 2. The flow is compressive
 - ☒ 3. The fluid is real

Question ID : 3396881692

Status : Answered

Chosen Option : 1

✓ 4. The flow is steady

Q.58 Field test to determine soundness of the burnt bricks is

- Ans
- ✗ 1. Any of these
 - ✓ 2. Striking two bricks against each other & listening the sound
 - ✗ 3. Scratching the surface of brick with nail
 - ✗ 4. Dropping it on ground from height of 1 round 1m.

Question ID : 3396881660

Status : Answered

Chosen Option : 1

Q.59 Aerosol contributing towards air pollution is

- Ans
- ✗ 1. Particle of fly ash of any size
 - ✓ 2. Dispersion of small solid or liquid particles in gaseous media
 - ✗ 3. Carbon di-oxide gas molecules
 - ✗ 4. Water vapour

Question ID : 3396881698

Status : Answered

Chosen Option : 1

Q.60 The moment of a force about any point is ----- times the area of a triangle whose base represents the FORCE and vertex opposite to base represents the MOMENT CENTRE.

- Ans
- ✗ 1. Sixteen
 - ✗ 2. Four
 - ✓ 3. Two
 - ✗ 4. Eight

Question ID : 3396881678

Status : Answered

Chosen Option : 1

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