DSSSB
JE (Civil)

Previous Year Paper
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Participant ID	
Participant Name	
Test Center Name	
Test Date	19/03/2021
Test Time	8:30 AM - 10:30 AM
Subject	Junior Engineer (Civil)

Section : **Discipline1**

Q.1 **According to ISI method of measurement, the order of the sequence is**

Ans ✗ 1. Length, height, bredth

✗ 2. Height, length, breadth

✓ 3. Length, breadth, height

✗ 4. Breadth, length, height

Question ID : **5406263386**

Q.2 **The best method of finding the strength of coarse aggregate is**

Ans ✓ 1. Aggregate crushing value

✗ 2. Aggregate abrasion

✗ 3. Aggregate Impact value

✗ 4. 10 per cent fines value

Question ID : **5406263379**

Q.3 **The recommended moisture content for interior wood such as door is:**

Ans ✓ 1. 6 – 12 %

✗ 2. 13 – 18%

✗ 3. 19 – 22 %

✗ 4. 2 – 5%

Question ID : **5406263377**

Q.4 Match the correct code for constituents of brick by using List-I with List-II.

List-I (Ingredients)	List-II (%)
(A) Silica	(1) 50 – 60%
(B) Lime	(2) 20 – 30%
(C) Alumina	(3) Upto 5%
(D) Oxide of iron	(4) Upto 5% or 6%

Ans ✗ 1. A-1 B-2 C-4 D-3

✔ 2. A-1 B-3 C-2 D-4

✗ 3. A-1 B-2 C-3 D-4

✗ 4. A-2 B-1 C-4 D-3

Question ID : 5406263370

Q.5 Water Cement Ratio (by Weight Consideration) for M20 Grade of Concrete is:

Ans ✗ 1. 0.58

✗ 2. 0.45

✗ 3. 0.53

✔ 4. 0.55

Question ID : 5406263384

Q.6 _____ is a written offer submitted by the contractors in pursuance of the notification given, to execute certain work or supply of some specified articles or transport of materials at certain rates with the terms and conditions laid down in the initial documents.

Ans ✗ 1. Lumpsum contract

✗ 2. Negotiated contract

✔ 3. Tender

✗ 4. Item rate contract

Question ID :

Q.7 The standard brick weight should range from:

Ans ✗ 1. 2000 kg/m^3 to 3000 kg/m^3

✔ 2. 1600 to 1920 kg/m^3

✗ 3. 1350 to 1480 kg/m^3

✗ 4. 1120 to 1300 kg/m^3

Question ID : 5406263372

Q.8 The unit of Measurement for Earthwork in Excavation in any type of Soil is:

Ans
  ✗ 1. No units
  ✓ 2. Cubic meters
  ✗ 3. Meters
  ✗ 4. Square meters

Question ID : **5406263381**

Q.9 By burning which material of following can we obtain hydraulic lime?

Ans
  ✗ 1. marble
  ✓ 2. kankar
  ✗ 3. Tufa
  ✗ 4. oolitic lime stone

Question ID : **5406263380**

Q.10 Which Class of Bricks are used for centering of R.C.C. structures?

Ans
  ✗ 1. IV Class
  ✓ 2. II Class
  ✗ 3. I Class
  ✗ 4. III Class

Question ID : **5406263371**

Q.11 1 bag of cement contains approximately how many kilograms of cement?

Ans
  ✗ 1. 55Kg
  ✗ 2. 59 Kg
  ✗ 3. 62 Kg
  ✓ 4. 50 Kg

Question ID : **5406263388**

Q.12 The estimate in which all costs of a unit quantity such as per KM for highway, per metre of span for a bridge, per litre for water tank is considered under

Ans
  ✗ 1. Cube rate Estimate
  ✗ 2. Revised estimate
  ✓ 3. Unit rate Estimate
  ✗ 4. Plinth area Estimate

Question ID : **5406263387**

Q.13 Which is the hardest mineral among the following options?

Ans
- ✗ 1. Felspar
- ✗ 2. Quartz
- ✗ 3. Amphibole
- ✓ 4. Garnet

Question ID : **5406263373**

Q.14 Match List-I (Property of cement) with List-II (Testing apparatus) and select the correct answer using the codes given below the lists:

List-I (Property of Cement)	List-II (Apparatus)
A. Specific gravity	1.Blain's apparatus
B. Setting time	2. Le Chatelier's flask
C. Soundness	3. Compressometer
D. Fineness	4. Autoclave
	5. Vicat's apparatus

Ans
- ✗ 1. A-3 B-5 C-1 D-2
- ✗ 2. A-5 B-3 C-4 D-1
- ✓ 3. A-2 B-5 C-4 D-1
- ✗ 4. A-2 B-5 C-1 D-4

Question ID : **5406263378**

Q.15 For Big Project while Calculating estimate, Tools and Plants has to be considered for an amount of _____ percentage of the Total Estimated Cost.

Ans
- ✓ 1. 1 – 1.5
- ✗ 2. 2 – 2.5
- ✗ 3. 0 – 0.5
- ✗ 4. 2 – 5

Question ID : **5406263382**

Q.16 Which of the following properties is necessary to maintain Seasoning of timber?

Ans
- ✗ 1. increase the vermin resistance
- ✓ 2. expel the moisture present in timber
- ✗ 3. reduce the microbial substances
- ✗ 4. increase the fire resistance

Question ID : **5406263376**

Q.17 The Thickness of RCC Roof slab may range from:

Ans ✗ 1. 170 to 220 mm

✗ 2. 60 to 75 mm

✗ 3. 20 to 50 mm

✓ 4. 80 to 150 mm

Question ID : 5406263383

Q.18 Which is the unstratified stone among the following?

Ans ✗ 1. Limestone

✗ 2. SandStone

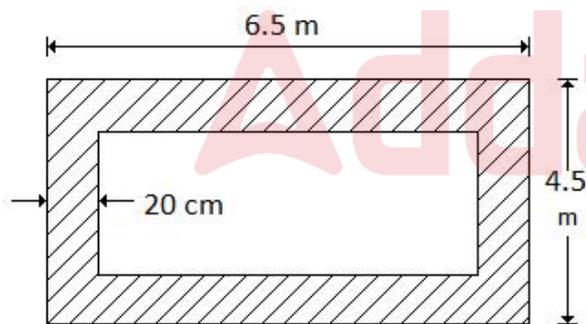✓ 3. Granite

✗ 4. Shale

Question ID : 5406263374

Q.19 The ratio of Young's modulus of high tensile steel to that of mild steel is about:

Ans ✓ 1. 1

✗ 2. 1.5

✗ 3. 0.5

✗ 4. 2

Question ID : 5406263375

Q.20 From the Figure, find the centre – centre length of the longwall and short wall of the given RCC wall.

Ans ✗ 1. 6.3 m and 4.5 m

✗ 2. 6.5 m and 4.3 m

✓ 3. 6.3 m and 4.3 m

✗ 4. 5 m and 4 m

Question ID : 5406263389

Section : **Discipline2**

Q.1 **The unit of Measurement for Steel Doors & Windows in Estimation of Building is**

Ans
✔ 1. Square meters

✘ 2. Cu.m

✘ 3. Runnin meter

✘ 4. M

Question ID : **5406263397**

Q.2 **Degree of accuracy for Dimensions in estimating construction works is:**

Ans
✔ 1. 0.01 metre

✘ 2. 0.001 metre

✘ 3. 0.001 sq.m

✘ 4. 0.01 cu.m

Question ID : **5406263392**

Q.3 **The minimum required cover of concrete to reinforcements for foundation is**

Ans
✘ 1. 45 mm

✘ 2. 30 mm

✘ 3. 50 mm

✔ 4. 40 mm

Question ID : **5406263396**

Q.4 **According to Which Indian Standard Code, the Brickwork rate for arches of span not exceeding 6 m hire and labour charges for centering and shuttering shall be included in the item and for spans exceeding 6m centering and shuttering shall be measured separately?**

Ans
✔ 1. IS:1200

✘ 2. IS:1220

✘ 3. IS:1400

✘ 4. IS: 1240

Question ID : **5406263394**

Q.5 **As per Indian Standards, the Weight per Metre in Kg for the Diameter 16 mm Mild Steel Bar is**

Ans
✘ 1. 1.5 Kg

✘ 2. 1.2 Kg

✔ 3. 1.58 Kg

✘ 4. 2 Kg

Question ID : **5406263395**

Q.6 1 decameter = _____ Meters

Ans
- ✗ 1. 1000
- ✗ 2. 100
- ✗ 3. 1
- ✔ 4. 10

Question ID : 5406263401

Q.7 The Magnetic bearing of a Line AB is S28°30'E. Calculate the true bearing if the declination is 7°30' West.

Ans
- ✗ 1. S 28°30'E
- ✗ 2. S 32°30'E
- ✔ 3. S 36°00'E
- ✗ 4. S 28°15'E

Question ID : 5406263408

Q.8 Whole Circle bearing varies from:

Ans
- ✗ 1. 900 to 1800
- ✗ 2. 1800 to 2700
- ✗ 3. 0 to 900
- ✔ 4. 00 to 3600

Question ID : 5406263405

Q.9 Calculate the Volume of the Concrete for given Length = 75 cm; Breadth = 45 cm; Depth = 40 cm.

Ans
- ✗ 1. 0.5 cu.m
- ✗ 2. 0.150 cu.m
- ✗ 3. 0.75 cu.m
- ✔ 4. 0.135 cu.m

Question ID : 5406263390

Q.10 For Bent up Bars, the inclined length of Crank if the Depth of the member is d, will be

Ans
- ✗ 1. 1.42d
- ✗ 2. 1.46d
- ✗ 3. 1.55d
- ✔ 4. 2 d

Question ID : 5406263393

Q.11 The unit of Measurement for Brickwork in Estimation of Building (exceeding 700 mm in thickness) is:

Ans ✓ 1. Cubic meters

✗ 2. Square meters

✗ 3. Meters

✗ 4. No units

Question ID : 5406263398

Q.12 The art of determining the relative positions of points on, above or beneath the surface of the earth by means of direct or indirect measurements of distance, direction and elevation is known as

Ans ✗ 1. Stadia

✗ 2. Marine

✓ 3. Surveying

✗ 4. Levelling

Question ID : 5406263406

Q.13 Degree of accuracy for Areas in estimating construction works is:

Ans ✓ 1. 0.01 sq.m

✗ 2. 0.01 cu.m

✗ 3. 0.01 metre

✗ 4. 0.001 sq.m

Question ID : 5406263399

Q.14 Correction of Curvature and Refraction, respectively. For a distance of 2400 Meters is:

Ans ✗ 1. 0.5 m and 0.04 m

✗ 2. 0.3 m and 0.043 m

✗ 3. 0.6 m and 0.03 m

✓ 4. 0.45 m and 0.064 m

Question ID : 5406263403

Q.15 Shrunk level = ?

Ans ✓ 1. Shrinkage factor * Original Scale

✗ 2. Shrinkage factor / Original Scale

✗ 3. Shrinkage factor - Original Scale

✗ 4. Shrinkage factor + Original Scale

Question ID : 5406263400

Q.16 The Eye can perceive without strain and with considerable precision when two graduations coincide to form one continuous straight line. The above line is the Principle of which SCALE?

Ans ✗ 1. Scale of Chords

✔ 2. Vernier Scale

✗ 3. Plain Scale

✗ 4. Diagonal Scale

Question ID : 5406263407

Q.17 Error due to Incorrect Chain or Tape, Correction to volume for the error due to incorrect chain or tape, if e = elongation in length; V' = Measured or computed Volume; V = Actual or True Volume is

Ans ✔ 1. $V = (1+3e)V'$

✗ 2. $V' = (1+3e)V$

✗ 3. $V' = (1-3e)V$

✗ 4. $V = (1-3e)V'$

Question ID : 5406263409

Q.18 1 Acre = _____ Sq. Chains

Ans ✔ 1. 10

✗ 2. 100

✗ 3. 1000

✗ 4. 1

Question ID : 5406263402

Q.19 Engineer's Scale representation is:

Ans ✗ 1. 1 ft = 10 m

✔ 2. 1cm = 10 m

✗ 3. 1 m = 10 cm

✗ 4. 1 inch = 10 m

Question ID : 5406263404

Q.20 Long and Short wall method is also known as

Ans ✗ 1. Out-to-Out Method

✗ 2. In-to-In method

✔ 3. Out-to-Out & In-to-In Method

✗ 4. Crossing Method

Question ID : 5406263391

Section : **Discipline3**

Q.1 The length of Engineer's Chain is

Ans

   ❌ 1. 100 m

   ✅ 2. 100 ft

   ❌ 3. 50 m

   ❌ 4. 30 ft

Question ID : **5406263410**

Q.2 In which unit, four oxygen or hydroxyls having configuration of a tetrahedron enclose a silicon atom?

Ans

   ❌ 1. Kaolinite

   ✅ 2. Silica tetrahedral Unit

   ❌ 3. Oxygen tetrahedral unit

   ❌ 4. Montmorillonite

Question ID : **5406263425**

Q.3 The test procedure for sieve analysis has been standardized by ISI as given in:

Ans

   ✅ 1. IS:2720

   ❌ 2. IS:456

   ❌ 3. IS:1700

   ❌ 4. IS: 2725

Question ID : **5406263429**

Q.4 Structure exists in grains of silts or rock flour smaller than 0.02 mm diameter and larger than 0.0002 mm. Such structure is known as:

Ans

   ❌ 1. Single grained structure

   ❌ 2. Reinforced structure

   ❌ 3. Flocculent and dispersed Structure

   ✅ 4. Honeycomb structure

Question ID : **5406263427**

Q.5 Who is the father of modern soil mechanics?

Ans

   ❌ 1. Rankine

   ✅ 2. Karl Von Terzaghi

   ❌ 3. Prandtl

   ❌ 4. Newton

Question ID : **5406263418**

Q.6 **A correct sequence of comprehensive route Survey is**

Ans ✗ 1. Preliminary surveys, Reconnaissance, Construction survey, Location Surveys,.

✓ 2. Reconnaissance, Preliminary surveys, Location Surveys, Construction survey.

✗ 3. Reconnaissance, Preliminary surveys, Construction survey, Location Surveys

✗ 4. Preliminary surveys, Reconnaissance, Location Surveys, Construction survey.

Question ID : 5406263413

Q.7 **Two distances of 40 and 120 metres were accurately measured out and the intercepts on the staff between the outer stadia webs were 0.242 m at the former distance and 1.042 m at the latter. Calculate the Tacheometric Constants.**

Ans ✗ 1. k=100; C= 0.5

✗ 2. k=100; C= 0

✗ 3. k=100; C= 5.8

✓ 4. k=100; C= 15.8

Question ID : 5406263416

Q.8 **The process where water-soluble parts in the soil such as Calcium Carbonate, are dissolved and washed out from the soil by rainfall or percolating subsurface water is called**

Ans ✓ 1. Leaching

✗ 2. Hardening

✗ 3. Weathering

✗ 4. Curing

Question ID : 5406263426

Q.9 **Stokes law is valid for the particle diameter ranging from**

Ans ✓ 1. 0.2 to 0.0002 mm

✗ 2. 0.2 to 0.4 mm

✗ 3. 0 to 0.2 mm

✗ 4. 0.4 to 1.0 mm

Question ID : 5406263420

Q.10 **Tacheometric Survey will come under which of the following Classification of Surveying?**

Ans ✓ 1. Classification based on Instrument used

✗ 2. Classification based on Nature of the Field Survey

✗ 3. Archeological Survey

✗ 4. Classification based on Object of Survey

Question ID : 5406263411

Q.11 **The Hypotenusal allowance in links for a given Angle of Slope θ is:**

Ans
- ✔ 1. 100(Sec θ - 1) Links
- ✘ 2. 100(Sin θ - 1) Links
- ✘ 3. 100(Cos θ - 1) Links
- ✘ 4. 100(Cosec θ - 1) Links

Question ID : **5406263415**

Q.12 **Soils deposited in lake beds are known as**

Ans
- ✘ 1. Marine soils
- ✔ 2. Lacustrine soils
- ✘ 3. Glacial soils
- ✘ 4. Alluvial soils

Question ID : **5406263421**

Q.13 **Weight of soil solids per unit of its total volume of the soil mass is known as**

Ans
- ✔ 1. Dry unit weight
- ✘ 2. Saturated density
- ✘ 3. Specific gravity
- ✘ 4. Saturated unit weight

Question ID : **5406263419**

Q.14 **The maximum capillary tension for a tube 0.07 mm in diameter is:**

Ans
- ✘ 1. $10.22 \ kN/m^3$
- ✘ 2. $5.22 \ kN/m^3$
- ✘ 3. $6.22 \ kN/m^3$
- ✔ 4. $4.3164 \ kN/m^3$

Question ID : **5406263428**

Q.15 **Which of the following method is also called as the method of orientation?**

Ans
- ✔ 1. Resection
- ✘ 2. Traversing
- ✘ 3. Recession
- ✘ 4. Intersection

Question ID : **5406263417**

Q.16 Strength of each Hydrogen Bond interaction in water is

Ans
  ✗ 1. 10-12 kcal/mol

  ✓ 2. 5-6 kcal/mol

  ✗ 3. 30-45 kcal/mol

  ✗ 4. 15-30 kcal/mol

Question ID : **5406263424**

Q.17 A transition curve is required for a circular curve of 200 metre radius, the gauge being 1.5 m and maximum super elevation restricted to 15 cm. The transition is to be designed for a velocity such that no lateral pressure is imposed on the rails and the rate of gain of radial acceleration is 30 cm/Sec^3. The required length of the transition curve and the design speed respectively are:

Ans
  ✗ 1. 14 m/s and 46 m

  ✗ 2. 46 m amd 24 m/s

  ✗ 3. 24 m/s and 46 m

  ✓ 4. 46 m and 14 m/s

Question ID : **5406263412**

Q.18 As per the Indian Standard nomenclature of grain sizes, if the Particle size Distribution is less than 0.002 mm, type of soils is:

Ans
  ✗ 1. Sand

  ✗ 2. Gravel

  ✓ 3. Clay

  ✗ 4. Silt

Question ID : **5406263422**

Q.19 The range of water content within which the soil exhibits plastic properties is called

Ans
  ✗ 1. Consistency Index

  ✗ 2. Liquidity Index

  ✓ 3. Plasticity Index

  ✗ 4. Shrinkage Index

Question ID : **5406263423**

Q.20 Which type of Surveying is more Accurate?

Ans
  ✗ 1. Compass Surveying

  ✗ 2. Plane Table Surveying

  ✗ 3. Chain Surveying

  ✓ 4. Theodolite Surveying

Question ID : **5406263414**

Section : **Discipline4**

Q.1 Which of the following relationship is correct for ideal gas law? p = Absolute pressure of a gas

R = Gas constant

T= Absolute Temperature in ^{0}K

ρ=density of a gas

Ans

✗ 1. $RT = \dfrac{\rho}{p}$

✔ 2. $p = \rho\, RT$

✗ 3. $pRT = \rho$

✗ 4. $\rho = p\, RT$

Question ID : **5406263444**

Q.2 Conditions of unstable Equilibrium of a floating body is _____ , given Metacentre (M), centre of buoyancy (B) & centre of gravity (G).

Ans

✗ 1. B is above G

✗ 2. B is below G

✗ 3. M is above G

✔ 4. M is below G

Question ID : **5406263441**

Q.3 Specific Volume of a fluid is defined as the ratio of

Ans

✗ 1. Weight density of the fluid to the weight density of the standard fluid

✔ 2. Volume of a fluid to Unit mass of fluid

✗ 3. Mass of fluid to unit volume of the fluid

✗ 4. Weight density of the standard fluid to the weight density of the fluid

Question ID : **5406263435**

Q.4 The type of flow in which the density of the fluid changes from point to point is called:

Ans

✗ 1. Steady flow

✔ 2. Compressible Flow

✗ 3. Unsteady flow

✗ 4. Incompressible Flow

Question ID : **5406263449**

Q.5 Total pressure force on the whole area for an Inclined plane surface submerged in Liquid is

Ans

✗ 1. $F = \rho\, g\, A / \bar{h}$

✗ 2. $F = \rho\, g\, A\, \bar{h}\, \sin\theta$

✔ 3. $F = \rho\, g\, A\, \bar{h}$

✗ 4. $F = \rho\, g / A\, \bar{h}$

Question ID : **5406263440**

Q.6 The pressure intensity at a point in a fluid is given 4.0 N/cm^2. The corresponding height of fluid when the fluid is water is:

Ans ✗ 1. 5.5 m

✗ 2. 5 m

✓ 3. 4.07 m

✗ 4. 4.5 m

Question ID : 5406263437

Q.7 Water present in the void spaces of a soil mass is called:

Ans ✓ 1. Soil water

✗ 2. Run off

✗ 3. Film moisture

✗ 4. Free surface water

Question ID : 5406263433

Q.8 A horizontal venturimeter with inlet and throat diameters 40 cm and 20 cm respectively is used to measure the flow of water. The reading of differential manometer connected to the inlet and the throat is 20 cm of mercury. $C_d = 0.98$. The rate of flow is

Ans ✓ 1. 22.8 Lit/sec

✗ 2. 228 Lit/sec

✗ 3. 40 Lit/sec

✗ 4. 45 Lit/sec

Question ID : 5406263446

Q.9 Vacuum Pressure = _____.

Ans ✗ 1. Atmospheric pressure + Gauge pressure

✗ 2. Atmospheric pressure – gauge pressure

✗ 3. Absolute Pressure – Atmospheric Pressure

✓ 4. Atmospheric Pressure – Absolute Pressure

Question ID : 5406263439

Q.10 China Clay is:

Ans ✗ 1. Palygorskite

✗ 2. Illite

✓ 3. Kaolinite

✗ 4. Montmorillonite

Question ID : 5406263434

Q.11 Continuity Equation for three dimensional flow is:

Ans

✔ 1. $\dfrac{\partial u}{\partial x} + \dfrac{\partial v}{\partial y} + \dfrac{\partial w}{\partial z} = 0$

✘ 2. $\dfrac{\partial u}{\partial x} + \dfrac{\partial v}{\partial y} - \dfrac{\partial w}{\partial z} = 0$

✘ 3. $\dfrac{\partial u}{\partial x} - \dfrac{\partial v}{\partial y} + \dfrac{\partial w}{\partial z} = 0$

✘ 4. $-\dfrac{\partial u}{\partial x} + \dfrac{\partial v}{\partial y} + \dfrac{\partial w}{\partial z} = 0$

Question ID : 5406263442

Q.12 An open circular tank of 30 cm diameter and 150 cm long contains water upto a height of 80 cm. the tank is rotated about its vertical axis at 300 rpm. The depth of parabola formed at the free surface of water is:

Ans

✔ 1. 113.14 cm

✘ 2. 100.28 mm

✘ 3. 113.14 mm

✘ 4. 100.28 cm

Question ID : 5406263445

Q.13 A sampler with a volume of 50 cm^3 is filled with a soil sample. When the soil is poured into a graduated cylinder, if displaces 30 cm^3 of water, then porosity and void ratio of the soil respectively are

Ans

✘ 1. 0.67 and 0.8

✘ 2. 0.67 and 0.4

✔ 3. 0.4 and 0.67

✘ 4. 0.8 and 0.67

Question ID : 5406263430

Q.14 The component of acceleration in x-direction is

Ans

✔ 1. $a_x = u\dfrac{\partial u}{\partial x} + v\dfrac{\partial u}{\partial y} + w\dfrac{\partial u}{\partial z} + \dfrac{\partial u}{\partial t}$

✘ 2. $a_x = u\dfrac{\partial u}{\partial x} - v\dfrac{\partial u}{\partial y} - w\dfrac{\partial u}{\partial z} + \dfrac{\partial u}{\partial t}$

✘ 3. $a_x = u\dfrac{\partial u}{\partial x} - v\dfrac{\partial u}{\partial y} - w\dfrac{\partial u}{\partial z} - \dfrac{\partial u}{\partial t}$

✘ 4. $a_x = u\dfrac{\partial u}{\partial x} + v\dfrac{\partial u}{\partial y} + w\dfrac{\partial u}{\partial z} - \dfrac{\partial u}{\partial t}$

Question ID : 5406263447

Q.15 A fluid, in which shear stress is more than the yield value and shear stress is proportional to the rate of shear strain is known as

Ans ✗ 1. Ideal fluids

✗ 2. Real fluids

✗ 3. Newtonian fluids

✔ 4. Plastic fluids

Question ID : 5406263436

Q.16 $ML^{-2}T^{-2}$ is the dimension for which Physical Quantity?

Ans ✗ 1. Dynamic Viscosity

✗ 2. Surface Tension

✗ 3. Energy

✔ 4. Specific Weight

Question ID : 5406263448

Q.17 Soils which appear quite dry contain, nevertheless, very thin films of moisture around the mineral grains, called:

Ans ✗ 1. Film moisture

✗ 2. Run off

✗ 3. Free surface water

✔ 4. Hygroscopic moisture

Question ID : 5406263432

Q.18 A soil sample has $L_L = 45$ %, $P_L = 25$ % and $S_L = 15$ %. For a natural water content of 30 %, the consistency index is:

Ans ✗ 1. 50 %

✔ 2. 75 %

✗ 3. 30 %

✗ 4. 40 %

Question ID : 5406263438

Q.19 Capillary height range of Silt Soil is

Ans ✗ 1. 2 to 10 cm

✔ 2. 100 to 1000 cm

✗ 3. 10 to 100 cm

✗ 4. 15 to 30 cm

Question ID : 5406263431

Q.20 If the Reynolds Number is less then 2000, then flow is said to be:

Ans ✗ 1. Intermediate

✓ 2. Laminar

✗ 3. Turbulent

✗ 4. Incompressible

Question ID : **5406263443**

Section : **Discipline5**

Q.1 For a homogeneous earth dam 52 m high and 2 m free board, a flow net was constructed and following results were obtained. Number of potential drops =25.
Number of flow channels = 4. The dam has a horizontal filter of 40 m length at its downstream end. If the coefficient of permeability of the dam is 3×10^{-3} cm/sec, the discharge per metre length of the dam is

Ans ✗ 1. 0.0024 cumec/metre length

✗ 2. 0.24 cumec/metre length

✗ 3. 0.024 cumec/metre length

✓ 4. 0.00024 cumec/metre length

Question ID : **5406263454**

Q.2 For the gravity dam, if the height of the dam is greater than the equation h=$\frac{f}{w(\rho+1)}$, then the dam is known as

Ans ✗ 1. Rockfill dam

✗ 2. Earthen dam

✗ 3. Low dam

✓ 4. High dam

Question ID : **5406263455**

Q.3 Which of the following modes of transport is fastest?

Ans ✗ 1. Highways

✓ 2. Airways

✗ 3. Waterways

✗ 4. Railways

Question ID : **5406263467**

Q.4 The Value of Rugosity coefficient N for lined channels with straight alignment of Brick Surface characteristics is

Ans ✓ 1. 0.014-0.017

✗ 2. 0.005-0.010

✗ 3. 0.010-0.014

✗ 4. 0.010-0.012

Question ID : **5406263466**

Q.5 Indian Standard code for the value of Rugosity coefficient N for Lined channels with Straight Alignment is

Ans ✗ 1. IS: 474

✓ 2. IS: 4745

✗ 3. IS: 7545

✗ 4. IS: 4547

Question ID : **5406263463**

Q.6 Which of the following mode needs minimum energy to haul unit load through unit distance?

Ans ✗ 1. Airways

✓ 2. Waterways

✗ 3. Highways

✗ 4. Railways

Question ID : **5406263469**

Q.7 Specific yield is defined as the

Ans ✗ 1. Ratio of Total Volume to Volume of water drained by gravity

✓ 2. Ratio of Volume of water drained by gravity to total volume

✗ 3. Difference between Volume of water drained by gravity and Total Volume

✗ 4. Ratio of Volume of Voids and Total volume.

Question ID : **5406263451**

Q.8 In road oil lining, the road oil sprinkled on subgrade in a thickness of about _____ is sufficient enough to saturate subgrade to a depth of _____ .

Ans ✗ 1. 4.0 mm and 6 cm

✗ 2. 2.5 mm and 6 cm

✓ 3. 1.5 mm and 8 cm

✗ 4. 3.5 mm and 8 cm

Question ID : **5406263465**

Q.9 D.A Molitor (IS:6512) has given formula for which type of pressure?

Ans ✗ 1. Wind pressure

✗ 2. Ice Pressure

✗ 3. Silt pressure

✓ 4. Wave pressure

Question ID : **5406263456**

Q.10 **Which mode has the maximum flexibility for travel with reference to route, direction, time and speed of travel?**

Ans
✗ 1. Airways

✗ 2. Railways

✔ 3. Highways

✗ 4. Waterways

Question ID : **5406263468**

Q.11 **The thickness of each slab for Precast concrete lining is**

Ans
✗ 1. 11 to 13 cm

✗ 2. 8.5 to 10 cm

✗ 3. 2 to 5 cm

✔ 4. 5 to 8 cm

Question ID : **5406263460**

Q.12 **For fixing of Location of Headworks, the stage in which the crosssection of the river is made of alluvial sand and silt. The bed slopes are small and velocities are gentle is called**

Ans
✗ 1. Delta stage

✔ 2. Trough stage

✗ 3. Rocky stage

✗ 4. Boulder stage

Question ID : **5406263457**

Q.13 **Spacing of Groynes is ------- time the length of groyne**

Ans
✗ 1. 0.5 to 2

✔ 2. 2 to 2.5

✗ 3. 1 to 1.5

✗ 4. 2.5 to 4

Question ID : **5406263462**

Q.14 **Find the Longitudinal slope of a channel section for the following data: Discharge Q=30cumecs; slit factor f=1.00; Side slope= 1.2 :1.**

Ans
✗ 1. $\dfrac{1}{1480}$

✗ 2. $\dfrac{1}{1680}$

✔ 3. $\dfrac{1}{5880}$

✗ 4. $\dfrac{1}{2580}$

Question ID : **5406263459**

Q.15 The top soil of a water logged field becomes more alkaline and infertile if its pH value is:

Ans ✗ 1. 3 to 4.5

✗ 2. Below 3

✔ 3. Rises to 11.0

✗ 4. 8 to 9

Question ID : 5406263450

Q.16 A canal is constructed with the idea of feeding two or more canals is known as

Ans ✗ 1. Irrigation canal

✗ 2. Carrier canal

✔ 3. Feeder canal

✗ 4. Navigation Canal

Question ID : 5406263452

Q.17 The depth of water table required which affects the growth of Rice is:

Ans ✗ 1. 1.5 m

✔ 2. 0.6 m

✗ 3. 2.0 m

✗ 4. 0.8 m

Question ID : 5406263461

Q.18 Horizontal force for a gravity dam, P_{wH} is

Ans ✗ 1. $wH^3/2$

✔ 2. $wH^2/2$

✗ 3. wH

✗ 4. $2w/H^2$

Question ID : 5406263453

Q.19 In Clay puddle lining, the thickness of lining is

Ans ✗ 1. 25 cm

✗ 2. 35 cm

✔ 3. 30 cm

✗ 4. 20 cm

Question ID : 5406263464

Q.20 A small channel which ultimately feeds the water to irrigation fields is called

Ans ✗ 1. Branch canal

✓ 2. Water course or field channel

✗ 3. Major distributary

✗ 4. Main canal

Question ID : **5406263458**

Section : **Discipline6**

Q.1 Planting trees would reduce pollution by sediments and will also prevent

Ans ✗ 1. Soil Settlement

✗ 2. Consolidation

✓ 3. Soil Erosion

✗ 4. Population

Question ID : **5406263489**

Q.2 Bombay Road Plan is called:

Ans ✗ 1. Fourth 20 year Road Plan

✗ 2. First 20 year Road Plan

✗ 3. Third 20 year Road Plan

✓ 4. Second 20 year Road Plan

Question ID : **5406263478**

Q.3 People suffer from numbness of body parts, vision and hearing problems and abnormal mental behavior. These are symptoms of which disease of the below?

Ans ✗ 1. Chlorosis

✓ 2. Minamata Disease

✗ 3. Fluorosis

✗ 4. Bluebaby syndrome

Question ID : **5406263487**

Q.4 The following is the one of the main features of the roman roads

Ans ✓ 1. The total thickness of the construction was as high as 0.75 to 1.2 meters at some places

✗ 2. The wearing course consisted of dressed moderate stone-blocks set in mud mortar.

✗ 3. They were built after the hard stratum is removed.

✗ 4. They were built once the soft soil is reached.

Question ID : **5406263471**

Q.5 The branch of transportation engineering which deals with the planning, design, construction and maintenance of airports and other facilities for the operation of aircrafts is termed as

Ans ✔ 1. Airport Engineering

✘ 2. Railway Engineering

✘ 3. Harbour Engineering

✘ 4. Highway Engineering

Question ID : 5406263474

Q.6 If v is velocity in m/s, Stopping Sight Distance (SSD) will be _____

Ans

✘ 1. $vt + \dfrac{v^2 f}{2g\eta}$

✘ 2. $vt + \dfrac{v^2}{2gf\eta}$

✘ 3. $vt + \dfrac{v^2 g}{2f\eta}$

✔ 4. $vt + \dfrac{v^2}{2gf}$

Question ID : 5406263480

Q.7 The development of terminal facilities for ships and boats, their harbouring, repairs are covered under

Ans ✘ 1. Railway Engineering

✘ 2. Highway Engineering

✔ 3. Harbour Engineering

✘ 4. Airport Engineering

Question ID : 5406263476

Q.8 The energy requirement to haul unit load through unit distance by the railway is only a _____ (fraction) of that required by road.

Ans

✘ 1. $\dfrac{1}{8} \, to \, \dfrac{1}{10}$

✘ 2. $\dfrac{1}{6} \, to \, \dfrac{1}{8}$

✔ 3. $\dfrac{1}{4} \, to \, \dfrac{1}{6}$

✘ 4. $\dfrac{1}{2} \, to \, \dfrac{1}{4}$

Question ID : 5406263470

Q.9 Third twenty year road development plan period is

Ans ✗ 1. 1963-1983

✓ 2. 1981-2001

✗ 3. 1923-1943

✗ 4. 1943 – 1963

Question ID : **5406263484**

Q.10 The below point may help in reducing water pollution from non-point sources:

Judicious use of agrochemicals like pesticides and fertilizers, which will reduce their _____.

Ans ✓ 1. Surface runoff

✗ 2. Fluoride content

✗ 3. Hydrogen Oxide

✗ 4. Sulphur dioxide

Question ID : **5406263488**

Q.11 The planning, design, construction and maintenance of road and roadway facilities to cater to the needs of road traffic are covered under

Ans ✗ 1. Harbour Engineering

✓ 2. Highway Engineering

✗ 3. Airport Engineering

✗ 4. Railway Engineering

Question ID : **5406263475**

Q.12 The test used to evaluate the load supporting capacity of supporting power of pavement layers is

Ans ✗ 1. California resistance value test

✓ 2. Plate bearing test

✗ 3. California bearing ratio test

✗ 4. Triaxial test

Question ID : **5406263481**

Q.13 Under which classification of roads, paved roads are classified?

Ans ✓ 1. Based on type of Carriage way

✗ 2. Based on Seasons

✗ 3. Based on population

✗ 4. Based on type of Pavement

Question ID : **5406263485**

Q.14 Excess of fluoride in drinking water causes defects in teeth and bones called:

Ans
❌ 1. Bluebaby syndrome

✅ 2. Fluorosis

❌ 3. Chlorosis

❌ 4. Minamata Disease

Question ID : **5406263486**

Q.15 The importance of subgrade drainage and compaction was recognized and so the subgrade was compacted and was prepared with a cross slope of 1 in 36. In which type of Road Construction, the above statement came into picture?

Ans
❌ 1. Tresaguet Construction

❌ 2. Telfords Construction

✅ 3. Macadam Construction

❌ 4. Metcalf Construction

Question ID : **5406263473**

Q.16 Under which of the following Road Pattern, Nagpur road plan is developed?

Ans
❌ 1. Radial and Block Pattern

✅ 2. Radial and Grid Pattern

❌ 3. Radial and Circular Pattern

❌ 4. Rectangular Pattern

Question ID : **5406263479**

Q.17 Index map should be of suitable size, which is:

Ans
❌ 1. 32×20 inches

❌ 2. 32×20 mm

❌ 3. 32×20 m

✅ 4. 32×20 cm

Question ID : **5406263483**

Q.18 Stages of Engineering Surveys for Highway Locations in the following order

Ans
❌ 1. Preliminary surveys, Map Study, Reconnaissance, Final location and detailed surveys

❌ 2. Preliminary surveys, Map Study, Final location and detailed surveys, Reconnaissance

✅ 3. Map Study, Reconnaissance, Preliminary surveys, Final location and detailed surveys

❌ 4. Map Study, Preliminary surveys, Final location and detailed surveys, Reconnaissance

Question ID : **5406263482**

Q.19 Who was the surveyor general of roads in England whose new concept of road construction became known by the year 1827?

Ans
✗ 1. Napoleon

✓ 2. John Macadam

✗ 3. Pierre Tresaguet

✗ 4. Thomas Telford

Question ID : **5406263472**

Q.20 Which of the following periods are true?

Ans
✓ 1. Pierre tresaguet(1716 – 1796)

✗ 2. Macadam Construction (1756-1854)

✗ 3. Telford construction(1757-1854)

✗ 4. Metcalf Construction (1717-1890)

Question ID : **5406263477**

Section : **Discipline7**

Q.1 The application of Castigliano's second theorem can be used to which type of structures?

Ans
✗ 1. For beams and frames only

✓ 2. For any type of Structure

✗ 3. Statically determinate structure only

✗ 4. Structures having point loads only

Question ID : **5406263507**

Q.2 The sewage of a certain town contains 700 ppm of suspended matter. Assuming that 55% this is settled down in **Plain sedimentation tank**, and the sludge collected has a water content of 95%, calculate its quantity per million litre, both in bulk and weight. Assume sp.gr.1.02.

Ans
✗ 1. 8.24 cu.m

✗ 2. 6.47 cu.m

✗ 3. 10.24 cu.m

✓ 4. 7.54 cu.m

Question ID : **5406263504**

Q.3 Sulphur dioxide is the primary pollutant for which pollution?

Ans
✓ 1. Air pollution

✗ 2. Water pollution

✗ 3. Land pollution

✗ 4. Noise Pollution

Question ID : **5406263499**

Q.4

The term $EI \dfrac{d^4 y}{dx^4}$ represents

Ans ✔ 1. Rate of loading

✘ 2. Deflection

✘ 3. Slope

✘ 4. Shearing force

Q.5 **Stages in sequential order in the Environmental Clearance Process are:**

Ans ✘ 1.

Scoping → Screening → Public Consultation → Appraisal

✘ 2.

Screening → Public Consultation → scoping → Appraisal

✔ 3.

Screening → scoping → Public Consultation → Appraisal

✘ 4.

Screening → Appraisal → scoping → Public Consultation

Q.6 **In the concept of Influence lines for beams, the following is to be considered for drawing shear force and bending moment diagrams?**

Ans ✘ 1. Does not have any impact on position of loading

✔ 2. Points change, position of loads remain fixed

✘ 3. No consideration of loads

✘ 4. Points remain fixed, position of load changes

Q.7 **For a stable and determinate frames, the following equation is valid**

Ans ✘ 1. $m < 2j - 3$

✘ 2. $m = 3j - 4$

✔ 3. $m = 2j - 3$

✘ 4. $m > 2j - 3$

Q.8 The presence of Lead in water can cause

Ans
- ✗ 1. Throat cancer
- ✗ 2. Retina damage
- ✔ 3. Kidney damage
- ✗ 4. Lung damage

Question ID : **5406263495**

Q.9 According to pre-revised National ambient air quality standards (NAAQS) for Indian industrial Areas, the permissible concentrations in ambient air for sulphur di-oxide (pollutant) will be _____.

Ans
- ✗ 1. $200 \ \mu g/m^3$
- ✗ 2. $140 \ \mu g/m^3$
- ✗ 3. $120 \ \mu g/m^3$
- ✔ 4. $80 \ \mu g/m^3$

Question ID : **5406263493**

Q.10 The term Ecology was introduced by

Ans
- ✗ 1. Tansely
- ✗ 2. Ramdeo Mishra
- ✔ 3. Haeckel
- ✗ 4. Odum

Question ID : **5406263500**

Q.11 Which one is the correct food chain?

Ans
- ✗ 1. Zooplankton → Protozoans → Fish
- ✗ 2. Grass → Fish → Zooplankton
- ✗ 3. Zooplankton → Phytoplankton → Fish
- ✔ 4. Phytoplankton → zooplankton → Fish

Question ID : **5406263502**

Q.12 While considering Design considerations involved in an activated sludge plant, Volumetric BOD Loading is defined as

Ans ✔️ 1. The ratio of tank through influent sewage in gm and Volume of the aeration tank in m^3.

❌ 2. The difference between Volume of the aeration tank in m^3 and tank through influent sewage in gm.

❌ 3. The ratio of Volume of the aeration tank in m^3 and tank through influent sewage in gm.

❌ 4. The difference between tank through influent sewage in gm and Volume of the aeration tank in m^3.

Question ID : 5406263501

Q.13 Rajendra Singh of rajasthan got prestigious Magsaysay Award Popularly Known as

Ans ❌ 1. Air man

❌ 2. Fire man

❌ 3. Soil Man

✔️ 4. Water Man

Question ID : 5406263491

Q.14 As per Drinking water quality standards for surface water sources without conventional treatment but after disinfection, BOD Value as per CPCB, New Delhi is

Ans ❌ 1. < 5 mg/l

✔️ 2. < 2 mg/l

❌ 3. > 5 mg/l

❌ 4. >2 mg/l

Question ID : 5406263494

Q.15 "All sludge and solid wastes from a plant are collected and sent to disposal site outside the plant". The above statement represents the method of waste disposal coming from which Industry in India?

Ans ❌ 1. Dye intermediate, H-Acid

✔️ 2. Petrochemicals

❌ 3. Orthochlorine

❌ 4. Paints, Varnish

Question ID : 5406263497

Q.16 The process of decomposition of biodegradable organic matter by the soil bacteria as in Ordinary composting techniques but takes assistance of cultured earth worms is known as

Ans ✔️ 1. Vermi – composting

❌ 2. Thermal pyrolysis

❌ 3. Sanitary land filling

❌ 4. Shredding and pulverization

Question ID : 5406263496

Q.17

The Eulers Crippling Load $P = \dfrac{4\pi^2 EI}{L^2}$; if

Ans

✗ 1. Both the ends are hinged

✓ 2. Both the ends are fixed

✗ 3. One end is fixed and other end is free

✗ 4. One end is fixed and other end is hinged

Question ID : **5406263509**

Q.18 The residence time or the waste retention time when
D = Dia of the cylindrical kiln in m.
S = Kiln rake or slope in m per m length of kiln
L = Kiln length
N = Rotational speed of the kiln in revolutions per minute(rpm)
t = mean residence time in minutes.

Ans

✗ 1. $t = \dfrac{0.19\,N}{D.S.L}$

✗ 2. $t = \dfrac{0.19\,D.S}{N.L}$

✓ 3. $t = \dfrac{0.19L}{D.S.N}$

✗ 4. $t = \dfrac{0.19D}{S.N.L}$

Question ID : **5406263503**

Q.19 Advanced treatment for removal of nitrates and phosphates will prevent

Ans

✗ 1. Chlorination

✓ 2. Eutrophication

✗ 3. Consolidation

✗ 4. Soil Erosion

Question ID : **5406263490**

Q.20 The Air (Prevention and Control of Pollution) Act 1981 came into force from

Ans

✗ 1. April 16, 1982

✓ 2. May 16, 1981

✗ 3. April16, 1981

✗ 4. Dec 16, 1981

Question ID : **5406263492**

Section : **Discipline8**

Q.1 Normal Consistency for High strength concrete 28 day strength is

Ans ✗ 1. 80 – 100 MPa

✔ 2. 35 – 80 MPa

✗ 3. 10 – 35 MPa

✗ 4. 100 – 120 MPa

Question ID : 5406263519

Q.2 The reaction component (locus) of a two hinged semi circular arch is

Ans ✔ 1. Straight line

✗ 2. Parabola

✗ 3. Circle

✗ 4. Hyperbola

Question ID : 5406263510

Q.3 In Plastic analysis, Shape factor for diamond is:

Ans ✗ 1. 2.34

✗ 2. 2.5

✔ 3. 2.0

✗ 4. 2.2

Question ID : 5406263514

Q.4 Tensile reinforcements provided at the mid span in the middle strip shall extend into the lower part of the slab to within _____ of a continuous edge or _____ of a discontinuous edge while designing slabs.

Ans ✗ 1. 0.10 L and 0.10 L

✔ 2. 0.25 L and 0.15 L

✗ 3. 0.15 L and 0.25 L

✗ 4. 0.15 L and 0.15 L

Question ID : 5406263517

Q.5 Modulus of Rigidity for the Structural Steel is

Ans ✗ 1. $0.692 \times 10^5 N/mm^2$

✔ 2. $0.769 \times 10^5 N/mm^2$

✗ 3. $0.5 \times 10^5 N/mm^2$

✗ 4. $2.0 \times 10^5 N/mm^2$

Question ID : 5406263515

Q.6 Force method is also called as _____ as per structural analysis.

Ans ✗ 1. Slope deflection method

✗ 2. Kani s method

✗ 3. Moment distribution method

✔ 4. Column analogy method

Question ID : **5406263511**

Q.7 For drawing Influence line diagram, the value of test load considered is:

Ans ✗ 1. Depends on structure

✔ 2. 1

✗ 3. 0

✗ 4. Arbitrary

Question ID : **5406263516**

Q.8 Partial safety factor for materials with respect to Resistance of weld connection with shop fabrication is:

Ans ✗ 1. 1.10

✔ 2. 1.25

✗ 3. 1.15

✗ 4. 1.5

Question ID : **5406263512**

Q.9 The simplest space frame / truss consists of six members joined to form

Ans ✔ 1. Tetrahedron

✗ 2. Hexahedron

✗ 3. Dodecahedron

✗ 4. Octahedron

Question ID : **5406263513**

Q.10 The ratio of Youngs modulus of high tensile steel to that of mild steel is about:

Ans ✗ 1. 2

✗ 2. 1.5

✗ 3. 0.5

✔ 4. 1.0

Question ID : **5406263518**

Section : **General English1**

Q.1 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
We light incense (1)/ sticks to camouflage (2)/ the bad smell (3)/. No error(4)

Ans ✔ 1. 4

✘ 2. 3

✘ 3. 2

✘ 4. 1

Question ID : 5406263520

Q.2 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
Each country in the (1) region have different strengths (2)/and faces different risks (3)/. No error (4)

Ans ✘ 1. 3

✘ 2. 1

✔ 3. 2

✘ 4. 4

Question ID : 5406263527

Q.3 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
Avoiding close contact with (1)/people suffering of a fever (2)/or cough is always a good idea (3)/. No error (4)

Ans ✘ 1. 1

✘ 2. 4

✔ 3. 2

✘ 4. 3

Question ID : 5406263521

Q.4 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
If you _____ wear an item of clothing, perhaps you should donate it to charity.

Ans ✘ 1. not

✘ 2. rare

✔ 3. seldom

✘ 4. lest

Question ID : 5406263537

Q.5 Yesterday Mumbai (witness) hundreds of fresh corona cases.

Ans ✘ 1. have witnessed

✔ 2. witnessed

✘ 3. no improvement

✘ 4. witnes

Question ID : 5406263534

Q.6 Improve the bracketed part of the sentence.
We should (draw on) an agreement before starting the project.

Ans ✗ 1. have make

✔ 2. draw up

✗ 3. create on

✗ 4. No Improvement

Question ID : **5406263532**

Q.7 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
A Major thrust of the emerge (1)/ technology is seen in the (2)/ field of transporting fresh food (3)/. No error (4)

Ans ✗ 1. 4

✗ 2. 2

✗ 3. 3

✔ 4. 1

Question ID : **5406263529**

Q.8 Rearrange the parts of the sentence in correct order.
Major factors contributing
P: the eastern part of Bengal at independence,
Q: to industrial decline have been the loss of
R: the lack of industrial diversification in the city
S: an overall decline in Kolkata's industrial productivity, and

Ans ✗ 1. SQRP

✔ 2. QPSR

✗ 3. RQSP

✗ 4. RPSQ

Question ID : **5406263539**

Q.9 A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
I can never forget what she has _____ for me.

Ans ✗ 1. does

✔ 2. done

✗ 3. doing

✗ 4. did

Question ID : **5406263535**

Q.10 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
They did hung the (1)/ picture frame on (2)/ the wall (3)/. No error (4)

Ans   ✗ 1. 4

   ✗ 2. 2

   ✔ 3. 1

   ✗ 4. 3

Question ID : 5406263522

Q.11 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
The firstly approach in attaining the necessary (1)/ step of green logistics is by scaling (2)/up the vehicles and the storage process (3)/. No error (4)

Ans   ✗ 1. 2

   ✗ 2. 4

   ✗ 3. 3

   ✔ 4. 1

Question ID : 5406263526

Q.12 A sentence has been given with a blank to be filled with an appropriate word/words. Choose the correct alternative.
_____ tactic has been used before.

Ans   ✗ 1. They

   ✔ 2. This

   ✗ 3. None of the above

   ✗ 4. Thus

Question ID : 5406263536

Q.13 Improve the bracketed part of the sentence.
You could (drow up) the apartment with a fresh coat of bright paint.

Ans   ✗ 1. draw on

   ✔ 2. dress up

   ✗ 3. dress down

   ✗ 4. No Improvement

Question ID : 5406263531

Q.14 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.
I remember _____ shocked by the ending of that book.

Ans   ✗ 1. of

   ✗ 2. be

   ✗ 3. been

   ✔ 4. being

Question ID : 5406263538

Q.15 Improve the bracketed part of the sentence.
She cannot (hear what) you are saying.

Ans ✗ 1. listen what

✔ 2. No Improvement

✗ 3. understand that

✗ 4. hear to

Question ID : **5406263530**

Q.16 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
The government has failed (1)/ to clear the misconceptions (2)/ between the people (3)/. No error (4)

Ans ✗ 1. 2

✗ 2. 1

✗ 3. 4

✔ 4. 3

Question ID : **5406263528**

Q.17 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
The nature of monsoon (1)/is such that the rate (2)/of rainfall varies some year (3)/. No error (4)

Ans ✗ 1. 4

✗ 2. 2

✗ 3. 1

✔ 4. 3

Question ID : **5406263523**

Q.18 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
Rumours and misinformation (1)/can facilitate transmission (2)/and cost live (3)/. No error (4)

Ans ✗ 1. 4

✗ 2. 1

✗ 3. 2

✔ 4. 3

Question ID : **5406263524**

Q.19 Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.
She has serve the (1)/cause of Indian culture (2)/and performing arts(3)/. No error (4)

Ans ✗ 1. 2

✗ 2. 3

✗ 3. 4

✔ 4. 1

Question ID : **5406263525**

Q.20 Improve the bracketed part of the sentence.
Most people want to (do away with) capital punishment.

Ans ✗ 1. finish

✔ 2. No Improvement

✗ 3. put a ban of

✗ 4. ban with

Question ID : **5406263533**

Section : **General English2**

Q.1 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
A person who deliberately sets fire to a building

Ans ✗ 1. Sommambulist

✗ 2. Polyglot

✗ 3. Auditor

✔ 4. Arsonist

Question ID : **5406263559**

Q.2 The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P: The egg sac went undetected by the supermarket chain and the importing company it works with.
Q: After the bananas were purchased, the egg sac broke open, releasing its potentially deadly contents.
R: An egg sac deposited in a banana bunch was shipped to the family's local grocery store.
S: In late 2013, a family in London, England, had to move out of their home so it could be fumigated because it became infested with tiny Brazilian wandering spiders.

Ans ✗ 1. QRPS

✗ 2. PQRS

✔ 3. SRPQ

✗ 4. QPSR

Question ID : **5406263542**

Q.3 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
Not fit to hold candle to

Ans   ✗ 1. Equity

   ✗ 2. Apathy

   ✗ 3. Superior

   ✔ 4. Inferior

Question ID : **5406263555**

Q.4 Choose the word that means the same as the given word.
Algid

Ans   ✔ 1. Frigid

   ✗ 2. Obscene

   ✗ 3. Tepid

   ✗ 4. Lukewarm

Question ID : **5406263545**

Q.5 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
On the same page

Ans   ✗ 1. Registered for work

   ✗ 2. To be present in a meeting

   ✗ 3. To mark progress

   ✔ 4. Thinks in a similar way

Question ID : **5406263553**

Q.6 Choose the word that is opposite in meaning to the given word.
Sultry

Ans   ✔ 1. Arctic

   ✗ 2. Ardent

   ✗ 3. Igneous

   ✗ 4. Toasty

Question ID : **5406263544**

Q.7 Choose the word that is opposite in meaning to the given word.
Damp

Ans   ✗ 1. Down

   ✗ 2. Dank

   ✗ 3. Dusk

   ✔ 4. Dry

Question ID : **5406263543**

Q.8 **Rearrange the parts of the sentence in correct order.**
The mercantile nature
P: is reflected in the fact that about
Q: two-fifths of the workers are
R: of the city's economy
S: employed in trade and commerce

Ans   ✗ 1. RQPS

✔ 2. RPQS

✗ 3. SRQP

✗ 4. QSPR

Question ID : **5406263540**

Q.9 **In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.**

Ans   ✔ 1. Aggrandize

✗ 2. Aggrondizee

✗ 3. Agrranndize

✗ 4. Agrandize

Question ID : **5406263550**

Q.10 **In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.**
To cross swords

Ans   ✗ 1. To boast about oneself

✔ 2. To fight

✗ 3. To give up

✗ 4. To backbite

Question ID : **5406263554**

Q.11 **In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.**

Ans   ✗ 1. Accrretion

✗ 2. Acrretion

✗ 3. Acretion

✔ 4. Accretion

Question ID : **5406263548**

Q.12 **In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.**

Ans   ✔ 1. Anathema

✗ 2. Annathema

✗ 3. Anaethema

✗ 4. Annaethema

Question ID : **5406263552**

Q.13 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
Talking through one's hat.

Ans ✗ 1. A person with good taste

✔ 2. Talk nonsense

✗ 3. Talk softly

✗ 4. To become friends quickly

Question ID : **5406263557**

Q.14 In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.

Ans ✗ 1. Ammophous

✗ 2. Ammorfous

✔ 3. Amorphous

✗ 4. Ammorphuous

Question ID : **5406263551**

Q.15 In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.

Ans ✗ 1. Abnegattion

✗ 2. Abbnegation

✗ 3. Abnegationn

✔ 4. Abnegation

Question ID : **5406263547**

Q.16 Choose the word that means the same as the given word.
Alibi

Ans ✗ 1. brazen

✔ 2. Justification

✗ 3. Accommodate

✗ 4. Accused

Question ID : **5406263546**

Q.17 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
Hard and fast

Ans ✗ 1. Flexible

✔ 2. Strict

✗ 3. Angry

✗ 4. Hasten

Question ID : **5406263558**

Q.18 In the given question, four words are given out of which one word is correctly spelt. Choose the correctly spelt word.

Ans ✔ 1. Affluent

✘ 2. Abluint

✘ 3. Abluent

✘ 4. Ablluent

Question ID : 5406263549

Q.19 In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.
To turn over a new leaf.

Ans ✘ 1. Waste time behind petty issues

✘ 2. To change alliances

✘ 3. To be revengeful

✔ 4. To change one's behaviour in a good way

Question ID : 5406263556

Q.20 The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.
P: He soon established himself as a major presence on stage and screen, eschewing roles that had been based on crude, racist stereotypes.
Q: An American citizen by birth, Sidney Poitier's Bahamian parents had travelled to Miami from their farm on Cat Island to sell some of their produce when his mother went into labour.
R: He was the first African American to win an Academy Award for best actor, for Lilies of the Field (1963).
S: After serving with the U.S. Army during World War II, he joined the American Negro Theatre and made his Broadway debut in 1946.

Ans ✔ 1. QSPR

✘ 2. SQRP

✘ 3. PQSR

✘ 4. PRSQ

Question ID : 5406263541

Section : **General English3**

Q.1 Choose the word that can substitute the given sentence.
One who can use either hand with ease.

Ans ✘ 1. Connnoisseure

✔ 2. Ambidextrous

✘ 3. Fugitive

✘ 4. Ascetic

Question ID : 5406263560

Q.2 **Choose the word that can substitute the given sentence.**
A collection of slaves.

Ans ✔ 1. Coffle

✘ 2. Chain

✘ 3. Company

✘ 4. Cortege

Question ID : **5406263562**

Q.3 **Choose the word that can substitute the given sentence.**
A person who tries to bring about a state of lawlessness.

Ans ✘ 1. Introvert

✘ 2. Bohemia

✔ 3. Anarchist

✘ 4. Cacographer

Question ID : **5406263564**

Q.4 **Choose the word that can substitute the given sentence.**
One who makes an official examination of accounts.

Ans ✔ 1. Auditor

✘ 2. Alarmist

✘ 3. Accountant

✘ 4. Director

Question ID : **5406263561**

Q.5 **Choose the word that can substitute the given sentence.**
A body appointed to judge and give verdict.

Ans ✔ 1. Jury

✘ 2. Lawyer

✘ 3. Audience

✘ 4. Committee

Question ID : **5406263563**

Comprehension:

Read the following information carefully and answer the given questions.

India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported in a 17-month-old boy of Maharashtra. The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza. A virus that leads to human influenza as well as bird flu. The viruses are found in wild birds and are endemic in poultry in some countries. The report was revealed in the December 2019 issue of the Emerging Infectious Diseases journal of the US Centers for Disease Control and Prevention (CDC), by scientists of the National Institute of Virology (NIV), Pune.

The scientists of the NIV detected the presence of the virus in February 2019 during a community-based surveillance study in some villages of Melghat district of Maharashtra. They were actually looking for the incidence of deaths caused due to respiratory syncytial virus (RSV) among children under two years. During the process, they came across the 17-month-old boy, who was affected by avian influenza. At that time, the child was suffering from high fever, cough, breathlessness, and had difficulty in feeding. However, he was fully recovered and immunised with treatment. The scientists conducting a series of laboratory test on the virus confirmed the presence of A (H9N2) virus last month in the journal.

As per NIV scientists, H9N2 viruses have been witnessed in Indian poultry several times, but for the first time, a human case has come up. This infection is mostly transmitted by air droplet, dust, feed, or water.

The first-ever case of H9N2 virus was reported from Hong Kong in 1998. After this, several cases were also reported in Hong Kong, China, Bangladesh, Pakistan, and Egypt. The recent case of infection on a human was reported from Oman. However, China and Hong Kong are majorly affected by this influenza viruses.

SubQuestion No : 6

Q.6 How the scientists of NIV found the victim of Avian influenza in Maharashtra?

Ans ✗ 1. During the process of immunization for RSV among 17 year old children.

✗ 2. Scientists were looking for the incidence of deaths among the children under 2 months.

✔ 3. Scientists were looking for the cases of deaths due to RSV among children under 2 years.

✗ 4. During the immunization campaign, scientist came across a 17 month old boy carrying H9N2 virus.

Question ID : **5406263567**

Comprehension:

Read the following information carefully and answer the given questions.

India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported in a 17-month-old boy of Maharashtra. The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza. A virus that leads to human influenza as well as bird flu. The viruses are found in wild birds and are endemic in poultry in some countries.

The report was revealed in the December 2019 issue of the Emerging Infectious Diseases journal of the US Centers for Disease Control and Prevention (CDC), by scientists of the National Institute of Virology (NIV), Pune.

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The first-ever case of H9N2 virus was reported from Hong Kong in 1998. After this, several cases were also reported in Hong Kong, China, Bangladesh, Pakistan, and Egypt. The recent case of infection on a human was reported from Oman. However, China and Hong Kong are majorly affected by this influenza viruses.

SubQuestion No : 7

Q.7 According to the passage, in which country the case of Avian influenza is not reported yet?

Ans ✗ 1. China

  ✗ 2. Hong Kong

  ✓ 3. Afghanistan

  ✗ 4. India

Question ID : **5406263566**

Comprehension:

Read the following information carefully and answer the given questions.

India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported in a 17-month-old boy of Maharashtra. The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza. A virus that leads to human influenza as well as bird flu. The viruses are found in wild birds and are endemic in poultry in some countries. The report was revealed in the December 2019 issue of the Emerging Infectious Diseases journal of the US Centers for Disease Control and Prevention (CDC), by scientists of the National Institute of Virology (NIV), Pune.

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The first-ever case of H9N2 virus was reported from Hong Kong in 1998. After this, several cases were also reported in Hong Kong, China, Bangladesh, Pakistan, and Egypt. The recent case of infection on a human was reported from Oman. However, China and Hong Kong are majorly affected by this influenza viruses.

SubQuestion No : 8

Q.8 From the following words, choose the word which is the exact opposite of 'Endemic'?

Ans   ✗ 1. Indigenous

✗ 2. Native

✔ 3. Imported

✗ 4. Aboriginal

Question ID : **5406263568**

Comprehension:

Read the following information carefully and answer the given questions.

India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported in a 17-month-old boy of Maharashtra. The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza. A virus that leads to human influenza as well as bird flu. The viruses are found in wild birds and are endemic in poultry in some countries. The report was revealed in the December 2019 issue of the Emerging Infectious Diseases journal of the US Centers for Disease Control and Prevention (CDC), by scientists of the National Institute of Virology (NIV), Pune.

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The first-ever case of H9N2 virus was reported from Hong Kong in 1998. After this, several cases were also reported in Hong Kong, China, Bangladesh, Pakistan, and Egypt. The recent case of infection on a human was reported from Oman. However, China and Hong Kong are majorly affected by this influenza viruses.

SubQuestion No : 9

Q.9 What is the primary purpose of the passage?

Ans ✔ 1. To elucidate scientists encounter with this virus in human.

✘ 2. To make people aware about this rarest virus.

✘ 3. To explain the harmful effects of Avian influenza.

✘ 4. To describe its spread around the globe.

Question ID : **5406263570**

Comprehension:

Read the following information carefully and answer the given questions.

India's first case of Avian influenza or Bird flu caused by a rare variety of H9N2 virus has been reported in a 17-month-old boy of Maharashtra. The infection is caused by a rare variety of H9N2 virus, which is a subtype of the influenza. A virus that leads to human influenza as well as bird flu. The viruses are found in wild birds and are endemic in poultry in some countries. The report was revealed in the December 2019 issue of the Emerging Infectious Diseases journal of the US Centers for Disease Control and Prevention (CDC), by scientists of the National Institute of Virology (NIV), Pune.

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The first-ever case of H9N2 virus was reported from Hong Kong in 1998. After this, several cases were also reported in Hong Kong, China, Bangladesh, Pakistan, and Egypt. The recent case of infection on a human was reported from Oman. However, China and Hong Kong are majorly affected by this influenza viruses.

SubQuestion No : 10

Q.10 Which of the following is NOT correct about the H9N2 virus?

Ans ✗ 1. H9N2 virus has been witnessed in Indian poultry several times.

✔ 2. This infection is mostly transmitted by air droplet, dust and waste.

✗ 3. H9N2 virus, is a subtype of the influenza.

✗ 4. This virus is found in wild birds and are endemic in poultry in some countries

Question ID : **5406263569**