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Previous Year Paper
(JE CIVIL)
23 April 2018 Shift 2



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Test Date:	23/04/2018
Test Time:	12:30 PM - 2:30 PM
Subject:	JE CIVIL

Section : Domain

Q.1 An angular reading having a whole circle bearing of $335^{\circ} 30'$ would be represented in quadrant form as:

- Ans
- ☒ 1. N24 30E
 - ☒ 2. S24 30W
 - ☒ 3. S24 30E
 - ☒ 4. N24 30W

Question ID : 9497309472
Status : Answered
Chosen Option : 4

Q.2 The joints which are intended to create weakened planes in the concrete and regulate the location where cracks, resulting from dimensional changes will occur are called as:

- Ans
- ☒ 1. Construction joints
 - ☒ 2. Hinge joints
 - ☒ 3. Contraction joints
 - ☒ 4. Isolation joints

Question ID : 9497309441
Status : Answered
Chosen Option : 3

Q.3 What is the limiting value of aggregate abrasion for concrete wearing courses?

- Ans
- ☒ 1. 20
 - ☒ 2. 50
 - ☒ 3. 30
 - ☒ 4. 40

Question ID : 9497309510
Status : Answered
Chosen Option : 3

Q.4 If the measured Froude number for a hydraulic jump is 10, which type of jump is it?

- Ans
- ☒ 1. Steady
 - ☒ 2. Oscillating
 - ☒ 3. Strong
 - ☒ 4. Weak

Question ID : 9497309497
Status : Answered
Chosen Option : 3

Q.5 Sewage sickness is a phenomenon related to:

- Ans
- ☒ 1. stoppage of free circulation of air due to clogging of soil pores
 - ☒ 2. septic sewage disposal

Question ID : 9497309483
Status : Answered
Chosen Option : 4

- ✗ 3. spoiling of vegetables due to application of sewage waste
✗ 4. malaria caused by sewage

Q.6 Which of the following is an obstacle to ranging but not chaining?

- Ans ✓ 1. Hill
✗ 2. River
✗ 3. Pond
✗ 4. Building

Question ID : 9497309471
Status : Answered
Chosen Option : 1

Q.7 A levelling operation is planned to be run across a river. Which of the following levelling operations shall be used for performing this?

- Ans ✗ 1. Trigonometrical
✗ 2. Fly
✓ 3. Reciprocal
✗ 4. Cross

Question ID : 9497309473
Status : Answered
Chosen Option : 1

Q.8 A component of an ocean wave energy (tidal energy) is to be constructed using reinforced cement concrete. Which of the following will be considered as the exposure condition for designing the structure?

- Ans ✓ 1. Extreme
✗ 2. Severe
✗ 3. Moderate
✗ 4. Very Severe

Question ID : 9497309434
Status : Answered
Chosen Option : 1

Q.9 Which of the following tests is used to estimate the soundness of ordinary portland cement?

- Ans ✗ 1. Daval
✓ 2. Le Chatelier
✗ 3. Bogue's
✗ 4. Blaine's

Question ID : 9497309446
Status : Answered
Chosen Option : 2

Q.10 A soil having sensitivity index of 5 will be classified as:

- Ans ✓ 1. Sensitive
✗ 2. Normal
✗ 3. Quick
✗ 4. Insensitive

Question ID : 9497309511
Status : Answered
Chosen Option : 1

Q.11 A soil is called as active, if its activity is:

- Ans ✗ 1. < 1
✗ 2. < 0.75
✓ 3. > 1.4

Question ID : 9497309445
Status : Not Answered
Chosen Option : --

✗ 4. < 1.4

Q.12 Preston tube is used to measure:

- Ans
- ✗ 1. boundary layer viscosity
 - ✓ 2. boundary shear stress
 - ✗ 3. mean flow velocity
 - ✗ 4. turbulent velocity profiles

Question ID : 9497309498

Status : Not Answered

Chosen Option : --

Q.13 Fillet weld material could fail in which of the following failure mechanisms?

- Ans
- ✗ 1. Bearing
 - ✗ 2. Tension
 - ✓ 3. Shear
 - ✗ 4. Compression

Question ID : 9497309465

Status : Answered

Chosen Option : 3

Q.14 In Terzaghi's theory of one-dimensional consolidation, which of the following is NOT an assumption?

- Ans
- ✗ 1. Soil is homogeneous.
 - ✓ 2. Darcy's law is not valid.
 - ✗ 3. Soil is incompressible.
 - ✗ 4. Soil is completely saturated.

Question ID : 9497309447

Status : Answered

Chosen Option : 2

Q.15 Which of the following is the most efficient and economical section used as a beam?

- Ans
- ✗ 1. H section
 - ✗ 2. Pipe section (circular)
 - ✗ 3. Angles
 - ✓ 4. I section

Question ID : 9497309460

Status : Answered

Chosen Option : 4

Q.16 Which of the following types of soils, in general, will have the highest capillary rise of water?

- Ans
- ✓ 1. Colloids
 - ✗ 2. Silts
 - ✗ 3. Clays
 - ✗ 4. Fine sand

Question ID : 9497309451

Status : Answered

Chosen Option : 4

Q.17 Which of the following is used to specify the size of a theodolite?

- Ans
- ✓ 1. Diameter of the lower plate
 - ✗ 2. Diameter of the vertical circle
 - ✗ 3. Telescope length
 - ✗ 4. Diameter of the upper plate

Question ID : 9497309475

Status : Answered

Chosen Option : 1

Q.18 What is the maximum slenderness ratio allowed for structural steel members always under tension?

- Ans
- ☒ 1. 350
 - ☒ 2. 300
 - ☒ 3. 250
 - ☒ 4. 400

Question ID : 9497309468

Status : Answered

Chosen Option : 1

Q.19 According to IS800, the modulus of elasticity, E ($E \times 10^3$ N/sq mm) of structural steel is assumed to be:

- Ans
- ☒ 1. 3.00
 - ☒ 2. 2.00
 - ☒ 3. 2.50
 - ☒ 4. 1.50

Question ID : 9497309467

Status : Answered

Chosen Option : 2

Q.20 During surveying, the curvature of earth is taken into consideration only when the extent (in m^2) of the survey is at least:

- Ans
- ☒ 1. 200
 - ☒ 2. 260
 - ☒ 3. 160
 - ☒ 4. 100

Question ID : 9497309469

Status : Answered

Chosen Option : 2

Q.21 The standard penetration of VG40 as stipulated by the Indian standard is a minimum of:

- Ans
- ☒ 1. 80.00
 - ☒ 2. 60.00
 - ☒ 3. 45.00
 - ☒ 4. 35.00

Question ID : 9497309504

Status : Not Answered

Chosen Option : --

Q.22 In which of the following fluids is the shear stress found to be directly proportional to the rate of angular deformations?

- Ans
- ☒ 1. Dilatant
 - ☒ 2. Thixotropic
 - ☒ 3. Non-Newtonian
 - ☒ 4. Newtonian

Question ID : 9497309490

Status : Answered

Chosen Option : 4

Q.23 Usually, a plate girder is called as economical if it corresponds to minimum:

- Ans
- ☒ 1. weight
 - ☒ 2. depth
 - ☒ 3. width
 - ☒ 4. web thickness

Question ID : 9497309463

Status : Answered

Chosen Option : 4

Q.24 Which of the following is NOT an advantage of plane table surveying?

- Ans
- ☒ 1. Inaccessible point can be easily located by intersection.
 - ☒ 2.

Question ID : 9497309477

Status : Answered

Chosen Option : 4

Irregular areas and objects can be well represented.

- ☐ 3. It is suitable in magnetic areas.
- ☒ 4. Number of accessories required are small.

Q.25 What is the advantage of a pin connection?

- Ans
- ☐ 1. The moment is zero.
 - ☐ 2. It does not rust.
 - ☐ 3. Easier workability.
 - ☒ 4. Secondary stresses are usually negligible.

Question ID : 9497309461

Status : Answered

Chosen Option : 1

Q.26 On a pressure-voids ratio plot on semilog scale for a soil, the slope of the linear portion is referred as:

- Ans
- ☒ 1. Compression index
 - ☐ 2. Coefficient of volume change
 - ☐ 3. Swelling index
 - ☐ 4. Coefficient of compressibility

Question ID : 9497309454

Status : Answered

Chosen Option : 1

Q.27 What is the minimum dissolved oxygen limit (ppm) for sustaining aquatic life?

- Ans
- ☐ 1. 64
 - ☒ 2. 4
 - ☐ 3. 2
 - ☐ 4. 16

Question ID : 9497309486

Status : Answered

Chosen Option : 1

Q.28 An arch bridge having span length of 10.25 m is being constructed. The wearing course slab thickness is 325 mm. If the first arch is cast today, after how many days should the props be removed?

- Ans
- ☐ 1. 7
 - ☒ 2. 21
 - ☐ 3. 14
 - ☐ 4. 28

Question ID : 9497309435

Status : Answered

Chosen Option : 3

Q.29 According to the basic principles of contouring, which of the following is true?

- Ans
- ☐ 1. The interval is directly proportional to the complexity of the geographical features.
The interval does not depend on the scale of the map or the complexity of the geographical features.
 - ☐ 2. The interval is inversely proportional to the scale of the map.
 - ☒ 3. The interval is directly proportional to the scale of the map.
 - ☐ 4. The interval does not depend on the scale of the map or the complexity of the geographical features.

Question ID : 9497309474

Status : Answered

Chosen Option : 3

Q.30 Which of the following conditions need to be applicable for uniform flow to take place in an open channel?

Ans

Question ID : 9497309496

<p>✓ 1. Prismatic channel and constant depth flow</p> <p>✗ 2. Frictionless channel</p> <p>✗ 3. Prismatic channel</p> <p>✗ 4. Non-prismatic channel</p>	<p>Status : Answered</p> <p>Chosen Option : 1</p>
<p>Q.31 The ability of a material to permanently deform without breaking is called as:</p> <p>Ans ✗ 1. Young's modulus</p> <p>✗ 2. Strain hardening</p> <p>✓ 3. Ductility</p> <p>✗ 4. Brittleness</p>	<p>Question ID : 9497309502</p> <p>Status : Answered</p> <p>Chosen Option : 2</p>
<p>Q.32 According to IS800, which of the following is NOT a limit state of durability consideration?</p> <p>Ans ✓ 1. Brittle fracture</p> <p>✗ 2. Corrosion durability</p> <p>✗ 3. Fatigue crack</p> <p>✗ 4. Fire durability</p>	<p>Question ID : 9497309508</p> <p>Status : Answered</p> <p>Chosen Option : 4</p>
<p>Q.33 In steel design, a plate used for connecting two or more structural members intersecting each other is referred as:</p> <p>Ans ✓ 1. Gusset plate</p> <p>✗ 2. Base plate</p> <p>✗ 3. Shoe plate</p> <p>✗ 4. Truss plate</p>	<p>Question ID : 9497309466</p> <p>Status : Answered</p> <p>Chosen Option : 1</p>
<p>Q.34 An aquifer has a porosity of 60% and the ratio of specific yield to specific retention is 1.5. What will be the specific yield (%)?</p> <p>Ans ✗ 1. 24</p> <p>✗ 2. 48</p> <p>✓ 3. 36</p> <p>✗ 4. 12</p>	<p>Question ID : 9497309452</p> <p>Status : Not Answered</p> <p>Chosen Option : --</p>
<p>Q.35 According to the bearing capacity computations' theory, which of the following criteria are used for estimating the allowable bearing capacity of soils?</p> <p>Ans ✗ 1. Settlement and plasticity</p> <p>✓ 2. Settlement and shear failure</p> <p>✗ 3. Soil structure interface failure</p> <p>✗ 4. Settlement and tensile failure</p>	<p>Question ID : 9497309457</p> <p>Status : Answered</p> <p>Chosen Option : 2</p>
<p>Q.36 What is the minimum nominal cover (mm) to be provided for reinforced concrete member exposed to severe weather conditions?</p> <p>Ans ✗ 1. 50</p> <p>✗ 2. 35</p>	<p>Question ID : 9497309438</p> <p>Status : Answered</p> <p>Chosen Option : 1</p>

- ✗ 3. 40
✓ 4. 45

Q.37 The blades of a fast centrifugal pump impeller will be:

- Ans ✗ 1. propeller type
✗ 2. radially spreading
✗ 3. forward facing
✓ 4. backward facing

Question ID : 9497309499
Status : Answered
Chosen Option : 2

Q.38 In sewage flow design, the velocity of flow of sewage is considered NOT to depend on:

- Ans ✗ 1. grade of sewer
✗ 2. roughness of sewer
✓ 3. length of sewer
✗ 4. hydraulic mean depth of sewer

Question ID : 9497309480
Status : Not Answered
Chosen Option : --

Q.39 In the process of chlorination of water, the application of chlorine beyond the stage of break point is termed as:

- Ans ✗ 1. Double chlorination
✗ 2. Break-point chlorination
✗ 3. Post-chlorination
✓ 4. Super-chlorination

Question ID : 9497309487
Status : Answered
Chosen Option : 4

Q.40 A flownet can be applied for all the listed purposes below EXCEPT:

- Ans ✗ 1. determination of seepage pressure
✗ 2. determination of seepage
✓ 3. determination of electric charge carrying capacity
✗ 4. determination of hydrostatic pressure

Question ID : 9497309453
Status : Not Answered
Chosen Option : --

Q.41 The high strength deformed bar reinforcement in either direction in slabs shall not be less than p percent of the total cross sectional area, where p is:

- Ans ✗ 1. 0.18
✗ 2. 0.10
✗ 3. 0.15
✓ 4. 0.12

Question ID : 9497309439
Status : Answered
Chosen Option : 4

Q.42 With which of the following curves are different grades usually joined together?

- Ans ✗ 1. Reverse
✓ 2. Transition

Question ID : 9497309476
Status : Answered
Chosen Option : 3

- ☒ 3. Vertical
- ☒ 4. Compound

Q.43 Usually for a group of piles, pile caps are provided for which of the following reasons?

- Ans
- ☒ 1. Stop any infiltration of water from top
 - ☒ 2. Spread loads to all piles
 - ☒ 3. Arrest lateral displacement
 - ☒ 4. Increase the load bearing capacity of each pile

Question ID : 9497309456
Status : Answered
Chosen Option : 2

Q.44 When a matter resists applied shear stress by static deformation, it is:

- Ans
- ☒ 1. Solid
 - ☒ 2. Fluid
 - ☒ 3. Liquid
 - ☒ 4. Gas

Question ID : 9497309489
Status : Answered
Chosen Option : 3

Q.45 Castigliano's theorem represents which of the following methods?

- Ans
- ☒ 1. Equilibrium
 - ☒ 2. Flexibility
 - ☒ 3. Displacement
 - ☒ 4. Force

Question ID : 9497309500
Status : Not Answered
Chosen Option : --

Q.46 Which of the following tests is NOT used for measuring the workability of concrete?

- Ans
- ☒ 1. Compaction factor
 - ☒ 2. Slump
 - ☒ 3. March cone flow time
 - ☒ 4. Vebe

Question ID : 9497309433
Status : Answered
Chosen Option : 3

Q.47 Anaerobic working conditions are applicable to:

- Ans
- ☒ 1. Sludge digestion tank
 - ☒ 2. Activated sludge digestion unit
 - ☒ 3. Sedimentation tank
 - ☒ 4. Trickling filters

Question ID : 9497309481
Status : Answered
Chosen Option : 2

Q.48 What will be the effective length of a steel column of length, s , having one end hinged and other fixed?

- Ans
- ☒ 1. s
 - ☒ 2. $1.25s$

Question ID : 9497309459
Status : Answered
Chosen Option : 3

- ✓ 3. 0.8s
✗ 4. 2s

Q.49 What is the range of effective size of sand particles (mm) used in slow sand filters?

- Ans ✓ 1. 0.25 - 0.35
✗ 2. 0.45 - 0.55
✗ 3. 0.35 - 0.45
✗ 4. 0.15 - 0.25

Question ID : 9497309485

Status : Not Answered

Chosen Option : --

Q.50 The volume (in millilitres) occupied by aerated mixed liquor containing one gram of dry solids after settling for 30 minutes is termed as:

- Ans ✗ 1. Liquor index
✗ 2. Chlorination limit
✗ 3. Allowable solids content
✓ 4. Sludge Volume Index (SVI)

Question ID : 9497309478

Status : Answered

Chosen Option : 4

Q.51 A 5 ft by 6 ft footing is designed with water table at the base of the footing. As per the general bearing capacity equation, what would be the correction for water table?

- Ans ✗ 1. 0.25
✗ 2. 1
✗ 3. 0.75
✓ 4. 0.5

Question ID : 9497309458

Status : Not Answered

Chosen Option : --

Q.52 As per IS 456, the unsupported length between end restraints shall not exceed m times the least lateral dimension of a column, where m is:

- Ans ✗ 1. 20
✗ 2. 40
✗ 3. 30
✓ 4. 60

Question ID : 9497309437

Status : Answered

Chosen Option : 2

Q.53 Which equation usually gives the laminar flow for real fluid?

- Ans ✗ 1. Bernoulli
✗ 2. Newton
✗ 3. Euler
✓ 4. Navier-Stokes

Question ID : 9497309495

Status : Answered

Chosen Option : 1

Q.54 According to IS 456, what is the partial safety factor for loads in case of limit state of collapse when dead and live loads are taken into account?

- Ans ✗ 1. 0.90
✗ 2. 1.20
✗ 3. 1.00
✓ 4. 1.50

Question ID : 9497309442

Status : Answered

Chosen Option : 4

Q.55 For a triangular section, the ratio of moments of inertia about its base and about a centroidal axis parallel to its base, is:

Question ID : 9497309506

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

Status : Answered
Chosen Option : 3

Q.56 Which of the following is NOT a method of laying water distribution pipelines?

- Ans
- ☒ 1. Dead-end
 - ☒ 2. Grid-iron
 - ☒ 3. Radial
 - ☒ 4. Spiral

Question ID : 9497309488
Status : Answered
Chosen Option : 4

Q.57 Usually, the specific gravity of sewage is:

- Ans
- ☒ 1. slightly less than one
 - ☒ 2. one
 - ☒ 3. slightly greater than one
 - ☒ 4. much less than one

Question ID : 9497309479
Status : Answered
Chosen Option : 3

Q.58 The difference between the total head line and the hydraulic grade line is the:

- Ans
- ☒ 1. piezometric head
 - ☒ 2. pressure head
 - ☒ 3. velocity head
 - ☒ 4. elevation head

Question ID : 9497309493
Status : Answered
Chosen Option : 3

Q.59 For a simply supported beam, if the original depth and width are doubled, the deflection at the centre will:

- Ans
- ☒ 1. decrease by 25%
 - ☒ 2. increase by 6.25%
 - ☒ 3. decrease by 6.25%
 - ☒ 4. decrease by 12.5%

Question ID : 9497309501
Status : Answered
Chosen Option : 4

Q.60 Per the IS, what is the minimum number of rivets essential at each end?

- Ans
- ☒ 1. 5
 - ☒ 2. 2
 - ☒ 3. 4
 - ☒ 4. 3

Question ID : 9497309464
Status : Answered
Chosen Option : 4

Q.61 As per IS 800, the maximum pitch of rivets in compression member of thickness t is lesser of:

- Ans
- ☒ 1. 200 mm or $12t$
 - ☒ 2. 200 mm or $20t$

Question ID : 9497309462
Status : Answered
Chosen Option : 1

- ☒ 3. 300 mm or 24t
- ☒ 4. 300 mm or 32t

Q.62 A clay having an unconfined compressive strength of 160 kN/sq.m would be classified as:

- Ans
- ☒ 1. Soft
 - ☒ 2. Very Stiff
 - ☒ 3. Stiff
 - ☒ 4. Hard

Question ID : 9497309509

Status : Not Answered

Chosen Option : --

Q.63 An 8 m simply supported reinforced concrete beam is to be checked for deflection. What will be the limiting ratio of span to effective depth?

- Ans
- ☒ 1. 7
 - ☒ 2. 20
 - ☒ 3. 14
 - ☒ 4. 26

Question ID : 9497309436

Status : Answered

Chosen Option : 2

Q.64 Fly ash is added to concrete to improve all of the following properties EXCEPT:

- Ans
- ☒ 1. Permeability
 - ☒ 2. Workability
 - ☒ 3. Long term strength
 - ☒ 4. Early age strength gain

Question ID : 9497309432

Status : Answered

Chosen Option : 3

Q.65 The limiting value of water absorption (%) for a class 25 brick as specified in the Indian standard is:

- Ans
- ☒ 1. 10
 - ☒ 2. 20
 - ☒ 3. 15
 - ☒ 4. 25

Question ID : 9497309505

Status : Answered

Chosen Option : 2

Q.66 According to IS 456, nominal concrete mixes can be used up to what grade of concrete?

- Ans
- ☒ 1. M10
 - ☒ 2. M15
 - ☒ 3. M20
 - ☒ 4. M5

Question ID : 9497309443

Status : Answered

Chosen Option : 3

Q.67 If the coefficient of uniformity of a soil is 16 and the coefficient of curvature is 1, then what is the ratio D_{60}/D_{30} ?

- Ans
- ☒ 1. 4.0
 - ☒ 2. 3.0
 - ☒ 3. 1.0
 - ☒ 4. 2.0

Question ID : 9497309450

Status : Answered

Chosen Option : 1

Q.68 A soil when tested in a laboratory indicated a liquid limit of 70% and a plasticity index of 40%. What is the type of the soil?

Ans

Question ID : 9497309444

- ✓ 1. CH
✗ 2. CL
✗ 3. ML
✗ 4. OL

Status : Not Answered
Chosen Option : --

Q.69 The compactive energy (kJ/cum) used for modified Proctor test is approximately equal to:

- Ans ✓ 1. 2675
✗ 2. 595
✗ 3. 1250
✗ 4. 1856

Question ID : 9497309455
Status : Not Answered
Chosen Option : --

Q.70 What are the dimensions of surface tension?

- Ans ✗ 1. ML^{-1}
✓ 2. MT^{-2}
✗ 3. MLT
✗ 4. ML

Question ID : 9497309494
Status : Answered
Chosen Option : 2

Q.71 Which of the following represents biochemical treatments of sewage effluents?

- Ans ✓ 1. Oxidation
✗ 2. Redox
✗ 3. Sulphonification
✗ 4. Chlorination

Question ID : 9497309482
Status : Answered
Chosen Option : 1

Q.72 Beams composed of two materials and rigidly connected together so as to behave as one piece, are known as:

- Ans ✗ 1. Parallel beams
✗ 2. Determinate beams
✓ 3. Composite beams
✗ 4. Indeterminate beams

Question ID : 9497309507
Status : Answered
Chosen Option : 3

Q.73 Aneroid barometers are used for measuring which of the following pressures?

- Ans ✗ 1. Differential w.r.t. atmospheric
✗ 2. Standard atmospheric
✗ 3. Gauge
✓ 4. Local atmospheric

Question ID : 9497309491
Status : Not Answered
Chosen Option : --

Q.74 For Bernoulli's equation to remain valid, which of the following is NOT required?

- Ans ✗ 1. Incompressible medium
✗ 2. Steady flow

Question ID : 9497309492
Status : Answered
Chosen Option : 3

- ☒ 3. Irrotational flow
- ☒ 4. Ideal gas fluid

Q.75 The maximum voids ratio of a soil is 0.7 and the minimum is 0.35. If the natural voids ratio is 0.525, then what will be the density index?

- Ans** ☒ 1. 0.5
- ☒ 2. 2
- ☒ 3. 1
- ☒ 4. 1.5

Question ID : 9497309449
Status : Answered
Chosen Option : 3

Q.76 The pH value of water to be used for concrete making shall not be usually less than:

- Ans** ☒ 1. 5.0
- ☒ 2. 6.0
- ☒ 3. 7.0
- ☒ 4. 8.0

Question ID : 9497309448
Status : Answered
Chosen Option : 2

Q.77 The phenomenon of internal cracking (separation of fibres) in timber due to drying stresses is called as:

- Ans** ☒ 1. Honeycombing
- ☒ 2. Internal stressing
- ☒ 3. Hearting
- ☒ 4. Hardwood formation

Question ID : 9497309503
Status : Answered
Chosen Option : 2

Q.78 Which of the following mostly causes acidity?

- Ans** ☒ 1. Oxygen
- ☒ 2. Nitrogen
- ☒ 3. Hydrogen
- ☒ 4. Carbon dioxide

Question ID : 9497309484
Status : Answered
Chosen Option : 4

Q.79 According to the basic principles of errors, if n observations are made, then the accidental errors are proportional to:

- Ans** ☒ 1. n^2
- ☒ 2. $n^{0.5}$
- ☒ 3. $n^{0.75}$
- ☒ 4. $n^{-0.5}$

Question ID : 9497309470
Status : Answered
Chosen Option : 2

Q.80 What is the minimum number of longitudinal bars to be provided in a column of diameter 350 mm?

- Ans** ☒ 1. 8
- ☒ 2. 6
- ☒ 3. 4
- ☒ 4. 10

Question ID : 9497309440
Status : Answered
Chosen Option : 2

Section : Reasoning

Q.1 College and Temple are located to the West and South of the Library respectively. Book shop is to the North of the College. The distance of the Book shop from the College is equal to the distance of the Temple from the Library. Find the direction of the book shop with reference to the Library.

- Ans ☒ 1. North-west
☒ 2. West
☒ 3. South-west
☒ 4. North

Question ID : 9497309518

Status : Answered

Chosen Option : 1

Q.2 D is the brother of V. R is the sister of S. V is the son of R. How is D related to R?

- Ans ☒ 1. Husband
☒ 2. Father
☒ 3. Brother
☒ 4. Son

Question ID : 9497309512

Status : Answered

Chosen Option : 4

Q.3 Find the value of 'k' in the given table.

48	26	15
56	30	k
72	38	21

- Ans ☒ 1. 28
☒ 2. 31
☒ 3. 17
☒ 4. 23

Question ID : 9497309519

Status : Answered

Chosen Option : 3

Q.4 Based on the given analogy, determine the missing word.

Meeting : Agenda :: Election : ?

- Ans ☒ 1. Booth
☒ 2. Vote
☒ 3. Manifesto
☒ 4. Rally

Question ID : 9497309514

Status : Answered

Chosen Option : 3

Q.5 Find the related number to complete the analogy.

290 : 17 :: 170 : ?

- Ans ☒ 1. 13
☒ 2. 16
☒ 3. 14
☒ 4. 9

Question ID : 9497309513

Status : Answered

Chosen Option : 1

Q.6 In a group of 95 persons, 45 like trekking, 35 like swimming and 30 do not like either of the two. How many like both trekking and swimming?

- Ans** ☒ 1. 15
☒ 2. 25
☒ 3. 10
☒ 4. 20

Question ID : 9497309520

Status : Answered

Chosen Option : 1

Q.7 A statement followed by some conclusions is given below.

Statement: Grandparents lament that food available these days is not as good as it used to be in their time.

Conclusions: I. They may be nostalgic.
 II. They lament over the deterioration in the quality of food over the period.

Which of the given conclusions logically follow(s) from the given statement?

- Ans** ☒ 1. Neither I nor II follows.
☒ 2. Only conclusion II follows.
☒ 3. Both I and II follow.
☒ 4. Only conclusion I follows.

Question ID : 9497309521

Status : Answered

Chosen Option : 2

Q.8 K is standing to the right of L, and to the left of M. N is standing to the left of L. O is in the middle. All of them are standing in a line facing the same direction. Who is standing to the right of O?

- Ans** ☒ 1. N
☒ 2. M
☒ 3. K
☒ 4. L

Question ID : 9497309515

Status : Answered

Chosen Option : 3

Q.9 If 'orange is violet', 'violet is green', 'green is red', 'red is white', white is blue' and 'blue is black, then what is the colour of blood?

- Ans** ☒ 1. White
☒ 2. Green
☒ 3. Orange
☒ 4. Blue

Question ID : 9497309517

Status : Answered

Chosen Option : 1

Q.10 Ram purchased two pieces of cloth measuring 1.7 m and 2.1 m each at ₹ 210 and ₹ 300 per metre respectively and gave two currency notes of ₹ 1000 and ₹ 500 denominations. How much cash will Ram get back?

- Ans** ☒ 1. ₹ 333
☒ 2. ₹ 324
☒ 3. ₹ 387
☒ 4. ₹ 357

Question ID : 9497309516

Status : Answered

Chosen Option : 2

Section : Quantitative Aptitude

Q.1 Calculate the compound interest on a deposit of ₹ 5,000 at the rate of 12% p.a. for 2 years.

- Ans** ☒ 1. ₹ 1,215
☒ 2. ₹ 1,272
☒ 3. ₹ 1,310
☒ 4. ₹ 1,248

Question ID : 9497309524

Status : Answered

Chosen Option : 2

Q.2 P and Q get salaries in the ratio of 3 : 4. If they get 10% and 20% increase in salaries respectively, find the new ratio of Q's salary to P's salary.

- Ans
- ☒ 1. 11 : 16
 - ☒ 2. 3 : 8
 - ☒ 3. 16 : 11
 - ☒ 4. 8 : 3

Question ID : 9497309523
Status : Answered
Chosen Option : 3

Q.3 The HCF and LCM of two numbers are 3 and 2856 respectively. If one of the numbers is 168, find the other.

- Ans
- ☒ 1. 51
 - ☒ 2. 56
 - ☒ 3. 17
 - ☒ 4. 48

Question ID : 9497309522
Status : Answered
Chosen Option : 1

Q.4 A car covers a certain distance at an average speed of 54 kmph in 200 minutes. What must be its speed to cover the same distance in 120 minutes?

- Ans
- ☒ 1. 90 kmph
 - ☒ 2. 70 kmph
 - ☒ 3. 80 kmph
 - ☒ 4. 100 kmph

Question ID : 9497309527
Status : Answered
Chosen Option : 1

Q.5 In what ratio should 2 varieties of wheat costing ₹ 40 per kg and ₹ 60 per kg be mixed to get a mixture costing ₹ 55 per kg?

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

Question ID : 9497309526
Status : Answered
Chosen Option : 1

Q.6 Find the 17th term in the series.

3, 9, 15, ...

- Ans
- ☒ 1. 99
 - ☒ 2. 96
 - ☒ 3. 105
 - ☒ 4. 87

Question ID : 9497309529
Status : Answered
Chosen Option : 1

Q.7 P can do a work in 8 days. Q can do the same work in 24 days. Both together worked for 5 days and P left the job. How many days will Q take to complete the remaining work?

- Ans
- ☒ 1. 12 days
 - ☒ 2. 8 days
 - ☒ 3. 4 days
 - ☒ 4. 10 days

Question ID : 9497309528
Status : Answered
Chosen Option : 3

Q.8 The angle of elevation of the top of a tower from a point on the ground is 60° . If the tower is 7 metres high, find the distance (in meters) of the point from the foot of the tower.

Ans

- ☒ 1. $7\frac{2}{\sqrt{3}}$
- ☒ 2. $7\frac{\sqrt{3}}{2}$
- ☒ 3. $7\sqrt{3}$
- ☒ 4. $\frac{7}{\sqrt{3}}$

Question ID : 9497309530

Status : Answered

Chosen Option : 4

Q.9 M's father is 20 years older than him now. The product of their ages after 5 years will be 800. Which equation can help determine M's present age?

Ans

- ☒ 1. $x^2 + 30x - 675 = 0$
- ☒ 2. $x^2 + 30x + 765 = 0$
- ☒ 3. $x^2 + 25x = 800$
- ☒ 4. $x^2 + 30x + 675 = 0$

Question ID : 9497309531

Status : Answered

Chosen Option : 1

Q.10 A dealer sold an article costing ₹ 1,500 at a profit of 20% to a shopkeeper who sold it to a customer at a profit of 20%. What is the cost price for the customer?

Ans

- ☒ 1. ₹ 2,100
- ☒ 2. ₹ 2,200
- ☒ 3. ₹ 2,160
- ☒ 4. ₹ 1,800

Question ID : 9497309525

Status : Answered

Chosen Option : 3

Section : General Awareness

Q.1 Which Indian state is the largest by area?

Ans

- ☒ 1. Maharashtra
- ☒ 2. Uttar Pradesh
- ☒ 3. Rajasthan
- ☒ 4. Madhya Pradesh

Question ID : 9497309534

Status : Answered

Chosen Option : 2

Q.2 What is the chemical substance secreted by endocrine glands called?

Ans

- ☒ 1. Sweat
- ☒ 2. Saliva
- ☒ 3. Hormone
- ☒ 4. Bilirubin

Question ID : 9497309541

Status : Answered

Chosen Option : 3

Q.3 With which country did India recently sign two MoUs - one on capacity building for civil servants and another on centre of excellence in IT?

Ans

- ☒ 1. South Africa

Question ID : 9497309533

Status : Not Answered

<p>✗ 2. Nigeria</p> <p>✗ 3. USA</p> <p>✓ 4. Namibia</p>	Chosen Option : --
<p>Q.4 What was the Mantra suggested by Prime Minister Narendra Modi to improve India's TAX administration?</p> <p>Ans ✗ 1. TRUST</p> <p>✓ 2. RAPID</p> <p>✗ 3. PROFIT</p> <p>✗ 4. CREDIT</p>	<p>Question ID : 9497309532</p> <p>Status : Not Answered</p> <p>Chosen Option : --</p>
<p>Q.5 As per International Kabaddi Federation, how many reserve players can a team substitute during timeout or interval?</p> <p>Ans ✗ 1. 4</p> <p>✓ 2. 5</p> <p>✗ 3. 2</p> <p>✗ 4. 3</p>	<p>Question ID : 9497309537</p> <p>Status : Not Answered</p> <p>Chosen Option : --</p>
<p>Q.6 What are Gravitational, Electromagnetic, Strong nuclear and Weak nuclear collectively and commonly referred to as?</p> <p>Ans ✗ 1. The Four Dimensions</p> <p>✗ 2. The Four Types of Energy</p> <p>✗ 3. The Four Elements</p> <p>✓ 4. The Four Fundamental Forces</p>	<p>Question ID : 9497309539</p> <p>Status : Answered</p> <p>Chosen Option : 2</p>
<p>Q.7 Who is considered the first Guru of the Sikhs?</p> <p>Ans ✓ 1. Guru Nanak</p> <p>✗ 2. Guru Amar Das</p> <p>✗ 3. Guru Govind Singh</p> <p>✗ 4. Guru Ram Das</p>	<p>Question ID : 9497309535</p> <p>Status : Answered</p> <p>Chosen Option : 1</p>
<p>Q.8 What is the ionic compound that results from the neutralization reaction of an acid and a base called?</p> <p>Ans ✗ 1. Drug</p> <p>✗ 2. Mineral</p> <p>✓ 3. Salt</p> <p>✗ 4. Ion</p>	<p>Question ID : 9497309540</p> <p>Status : Answered</p> <p>Chosen Option : 3</p>
<p>Q.9 Which Viceroy was elected as Governor General of India after the partition of India and Pakistan?</p> <p>Ans ✓ 1. Lord Mountbatten</p> <p>✗ 2. Lord Dalhousie</p> <p>✗ 3. Lord Curzon</p> <p>✗ 4. Warren Hastings</p>	<p>Question ID : 9497309536</p> <p>Status : Answered</p> <p>Chosen Option : 3</p>

Q.10 Who appoints an Attorney General of India?

- Ans
- ☒ 1. The Prime Minister of India
 - ☒ 2. Vice President of India
 - ☒ 3. The President of India
 - ☒ 4. Chief Justice of the Supreme Court of India

Question ID : 9497309538
Status : Answered
Chosen Option : 3

Section : English Language

Q.1 Find the mis-spelt word.

- Ans
- ☒ 1. Eyeing
 - ☒ 2. Kalaidoscope
 - ☒ 3. Crucifixion
 - ☒ 4. Dyeing

Question ID : 9497309548
Status : Not Answered
Chosen Option : --

Q.2 Change the verb into passive voice.

‘The teacher teaches us grammar.’

- Ans
- ☒ 1. We are taught grammar by the teacher.
 - ☒ 2. Grammar was taught us by the teacher.
 - ☒ 3. We are being taught grammar by the teacher.
 - ☒ 4. Grammar is being taught by the teacher.

Question ID : 9497309550
Status : Answered
Chosen Option : 1

Q.3 Select the meaning of the given phrase / idiom.

‘Cut to the quick’

- Ans
- ☒ 1. Cause intense mental agony
 - ☒ 2. Make two pieces
 - ☒ 3. Speed is the essence
 - ☒ 4. Cut quickly into pieces

Question ID : 9497309549
Status : Not Answered
Chosen Option : --

Q.4 The following sentence contains an error. Find the part of the sentence which contains the error.

My mother asked (1) / me (2) / whether I am (3) / going to do that (4).

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

Question ID : 9497309544
Status : Answered
Chosen Option : 1

Q.5 Make a meaningful sentence from the following.

P : from those who talk too

Q : little good work can

R : be expected

S : much about themselves

The correct order is:

Ans ☒ 1. RQSP

☒ 2. QSRP

☒ 3. QRPS

☒ 4. SQPR

Question ID : 9497309545

Status : Answered

Chosen Option : 3

Q.6 From the given pairs of words, find the one which has the same meaning.

Ans ☒ 1. Fickle, Stable

☒ 2. Allay, Relieve

☒ 3. Demur, Assent

☒ 4. Amiable, Hateful

Question ID : 9497309546

Status : Not Answered

Chosen Option : --

Q.7 The Judge _____ his judgment.

Ans ☒ 1. advised

☒ 2. proclaimed

☒ 3. told

☒ 4. delivered

Question ID : 9497309542

Status : Answered

Chosen Option : 4

Q.8 From the given pairs of words, find the one which does not have the same meaning.

Ans ☒ 1. Distant, Far

☒ 2. Diffidence, Distrust

☒ 3. Plenteous, Insufficient

☒ 4. Transient, Temporal

Question ID : 9497309547

Status : Answered

Chosen Option : 3

Q.9 Corruption _____ on itself.

Ans ☒ 1. succeeds

☒ 2. breeds

☒ 3. dies

☒ 4. shrinks

Question ID : 9497309543

Status : Answered

Chosen Option : 2

Q.10

Question ID : 9497309551

Rearrange the given sentences in the most appropriate sequence to form a meaningful paragraph.

- K - The main reason is that majority of the people don't prefer public transport.
 L - Other cities do not have enough public transport.
 M - Moreover, they own their own vehicle and like to use them.
 N - New York has a greater share of people using public transport than other cities in USA for daily commuting.

Status : Answered

Chosen Option : 4

- Ans
- ☒ 1. KMLN
 - ☒ 2. MLKN
 - ☒ 3. LMNK
 - ☒ 4. NLKM

