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UPPCL JE

Previous Year Paper
(Civil) 21 Feb 2022
Evening Shift

Uttar Pradesh Power Corporation Limited

Electricity Service Commission, Uttar Pradesh Power Corporation Ltd. S.L.D.C campus, near Mantri Awas, Vibhuti Khand Phase-2, Gomti Nagar, Lucknow-226010

Participant ID	
Participant Name	
Test Center Name	
Test Date	21/02/2022
Test Time	2:30 PM - 5:30 PM
Subject	JE CIVIL

Section : **Domain Knowledge**

Q.1 According to IS 456 : 2000, for the placing conditions of concrete is given under List 1, match the corresponding slump values measured in accordance with IS : 1199, given under List 2. Use the codes in the list for matching.

	List 1		List 2
M.	Lightly reinforced sections in slabs, beams, columns	1.	50 to 100 mm
N.	Heavily reinforced sections in slabs, beams, columns	2.	100 to 150 mm
O.	Trench fill	3.	75 to 100 mm
P.	Pumped Concrete, slip form work	4.	25 to 75 mm

Ans ✔ A. M- 4, N- 1, O- 2, P-3

✘ B. M- 2, N- 4, O- 3, P-1

✘ C. M- 2, N- 1, O- 4, P-3

✘ D. M- 2, N- 3, O- 1, P-4

Question ID : **97675534756**
Status : **Answered**
Chosen Option : **A**

Q.2 According to IS 383 : 2016, the maximum quantity of deleterious materials (except mica) in uncrushed Fine aggregate (expressed as percentage by mass) is:

Ans ✅ A. 5%

❌ B. 1%

❌ C. 7%

❌ D. 3%

Question ID : **97675534629**
Status : **Answered**
Chosen Option : **B**

Q.3 The purpose of an open cross staff in chain survey is :

Ans ✅ A. Setting perpendicular lines to survey lines

❌ B. Setting out a line at an angle to a survey line at a point

❌ C. Alignment of a survey line

❌ D. Marking of survey stations

Question ID : **97675534660**
Status : **Answered**
Chosen Option : **A**

Q.4 The following statements (S1 and S2) pertain to the effect of moisture content in wood.

Comment on the correctness of the statements

S1 : The mechanical properties of wood are not materially affected by a reduction of the moisture content upto the Fibre Saturation Point.
S2 : Shrinkage of wood in the longitudinal direction is greater when compared to the radial and tangential directions, for a change in the moisture content from the Fibre Saturation Point to Oven dry.

Ans ❌ A. Both statements S1 and s2 are False

✅ B. Statement S1 is True and statement S2 is False.

❌ C. Both S1 and s2 are True

❌ D. Statement S1 is False and statement S2 is True.

Question ID : **97675534637**
Status : **Answered**
Chosen Option : **B**

Q.5 एक स्तंभ के लिए आकुंचन भार (buckling load) किस स्थिति में अधिकतम होगा?

Ans ❌ A. यदि स्तंभ का एक सिरा अवलंबी (hinged) हो और दूसरा सिरा स्वतंत्र हो।

❌ B. यदि स्तंभ के दोनों सिरे अवलंबी (hinged) हों॥

❌ C. यदि स्तंभ का एक सिराबद्ध (fixed) हो और दूसरा सिरा स्वतंत्र हो।

✅ D. यदि स्तंभ के दोनों सिरेबद्ध (fixed) हों।

Question ID : **97675534745**
Status : **Answered**
Chosen Option : **C**

Q.6 Identify the correct statement(s) associated with providing super elevation on railway curves.
S1. Cant Excess : Occurs when the train travels around a curve at a speed higher than the equilibrium speed.
S2. Cant Deficiency : Difference between the actual cant provided and the theoretical cant required at low speeds.
S3. Maximum permissible speed : Highest speed permitted to a train on a curve taking into consideration the radius of Curvature, actual cant, cant deficiency, cant excess, and the length of transition.

Ans
✗ A. S1, S2, S3

✔ B. S3 only

✗ C. S1 and S2

✗ D. S2 only

Question ID : **97675534735**
Status : **Answered**
Chosen Option : **A**

Q.7 पेन्स्की-मार्टेंस बंद कप उपकरण (Pensky-Martens closed cup apparatus) का उपयोग करके बिटुमेन पर किए जाने वाले परीक्षण का नाम क्या है?

Ans
✔ A. स्फुरांक और दहनांक परीक्षण (Flash and Fire point test)

✗ B. श्यानता परीक्षण (Viscosity test)

✗ C. आपेक्षिक घनत्व परीक्षण (Specific gravity test)

✗ D. मृदुलन बिंदु परीक्षण

Question ID : **97675534730**
Status : **Answered**
Chosen Option : **B**

Q.8 मृदा में ससंजन के कारण, मृदा के सक्रिय भू-दाब (pa) और निष्क्रिय भू-दाब (pp) पर टिप्पणी करें?

Ans
✗ A. pa और pp दोनों बढ़ते हैं

✔ B. pa घटता है और pp बढ़ता है

✗ C. pa और pp दोनों घटते हैं

✗ D. pa बढ़ता है और pp घटता है

Question ID : **97675534687**
Status : **Not Answered**
Chosen Option : **--**

Q.9 The zero or 360 degree graduation in the graduated ring of a prismatic compass is marked in the :

Ans
✗ A. East end of the circle

✗ B. North end of the circle

✔ C. South end of the circle

✗ D. West end of the circle

Question ID : **97675534663**
Status : **Answered**
Chosen Option : **C**

Q.10 Match the code of signals for direct ranging. The List 1 indicates the Signals by the surveyor and List 2 indicates the Action by the assistant in the field :

List 1	List 2
M: Rapid sweep with left hand	1. Continue to move to the left
N : Slow sweep with left hand	2. Move considerably to the left
O: Left arm extended	3. Plumb the rod to the left
P : Left arm up and moved to left	4. Move slowly to the left
	5. Fix the rod in position

Ans   ✗ A. M - 2, N - 1, O - 4, P - 5

   ✗ B. M - 2, N - 1, O - 5, P - 3

   ✓ C. M - 2, N - 4, O - 1, P - 3

   ✗ D. M - 2, N - 4, O - 1, P - 5

Q.11 The test used for the determination of Optimum moisture content of a soil is :

Ans   ✓ A. Standard Proctor test

   ✗ B. Standard Penetration test

   ✗ C. Triaxial test

   ✗ D. CBR Method

Q.12 As per IS 10500:2012, the permissible limit of turbidity (in NTU) in the absence of alternate source is _____.

Ans   ✗ A. 1

   ✗ B. 15

   ✓ C. 5

   ✗ D. 10

Q.13 Identify the physical property which is different in the three grades of Ordinary Portland Cement (33 Grade, 43 Grade, and 53 Grade) used in India?

Ans   ✗ A. Fineness and Setting time and Minimum Compressive strength

✔ B. Minimum Compressive strength only

✗ C. Setting time and Soundness value

✗ D. Setting time only

Question ID : **97675534631**
Status : **Answered**
Chosen Option : **A**

Q.14 For a circular solid shaft of radius r , subjected to a Torque, the shear stress on the shaft is maximum :

Ans   ✗ A. At a distance r/2 from the centre of shaft

✗ B. At the centre of shaft

✗ C. Either at the centre or surface of shaft, depends on the angle of Twist

✔ D. At the surface of shaft

Question ID : **97675534739**
Status : **Answered**
Chosen Option : **A**

Q.15 The observed N value from a standard penetration test conducted on a saturated sandy soil stratum is 35. The corrected N value for dilatancy can be estimated as :

Ans   ✔ A. 25

✗ B. 45

✗ C. 20

✗ D. 15

Question ID : **97675534692**
Status : **Answered**
Chosen Option : **A**

Q.16 If the quadrantal bearing of a line is S25° 30′ E, its corresponding whole circle bearing value is :

Ans   ✗ A. $115^0 30'$

✗ B. $65^0 30'$

✗ C. $205^0 30'$

✔ D. $154^0 30'$

Question ID : **97675534656**
Status : **Answered**
Chosen Option : **D**

Q.17 The following observations were taken during reciprocal levelling to find the difference in elevation between two points P and Q, located on either banks of a wide river. If the reduced level of the point P is +60 m, determine the reduced level of the point Q ?

Instrument at :	Staff reading at P	Staff reading at Q
P	1.36 m	1.96 m
Q	1.52 m	2.02 m

Ans   ✗ A. + 59.4 m

✗ B. + 60.5 m

✔ C. + 59.45 m

✗ D. + 60.55 m

Q.18 The following Four statements (S1, S2, S3, S4) in connection with soil behaviour are given.
S1: Consolidation is a function of total stress
S2: Permeability of Coarse grained soil is inversely proportional to the specific surface at a given porosity.
S3: For a fully saturated soil the pore pressure parameter is equal to zero.
S4 : Terzaghi's theory of consolidation considers only primary consolidation.
Which of the above statement(s) is /are incorrect ?

Ans   ✗ A. S2 and S4

✗ B. S4 only

✔ C. S1 and S3

✗ D. S2 only

Q.19 Match the items in List 1(Property of Cement) with List 2 (Testing Apparatus) and select the correct answer using the codes given in list.

	List 1		List 2
P.	Specific Gravity	1.	Blaine air permeability apparatus
Q.	Setting time	2.	Le-Chatelier's flask
R.	Soundness	3.	Compressometer
S.	Fineness	4.	Autoclave
		5.	Vicat's apparatus

Ans ✗ A. P-3, Q-5, R-1, S-2

✓ B. P-2, Q-5, R-4, S- 1

✗ C. P-4, Q-5, R-2, S-3

✗ D. P-5, Q-3, R-4, S-1

Q.20 The predominant fluid property associated with cavitation phenomenon is :

Ans ✗ A. Surface tension

✗ B. Dynamic viscosity

✗ C. Bulk modulus of elasticity

✓ D. Vapour pressure

Q.21 The lateral strain due to axial loading a short cast iron circular column of 100 mm diameter is 0.0004. Determine the change in diameter of column?

Ans ✓ A. 0.04 mm

✗ B. 4 mm

✗ C. 0.04 π mm

✗ D. 0.2 mm

Q.22 In the estimation of quantities of the following works (given with codes M, N, O, P), identify the work having a different unit of measurement with respect to others?

M. Turfing of bunds of a canal
N. Wood work for door shutters
O. Bituminous road surfacing
P. Grouting of cracks or joints

Ans ✗ A. N

✗ B. O

✗ C. M

✔ D. P

Q.23 Match the items in List 1 (Name of field exploration) with those in List 2 (soil properties) and select the correct option.

Use codes for matching

	List 1		List 2
P.	Cyclic Pile load test	1.	Modulus of subgrade reaction
Q.	Plate Bearing test	2.	Relative density and strength
R.	Pressure meter test	3.	Skin friction and point bearing resistance
S.	Standard penetration test	4.	Elastic constants

Ans ✔ A. P-3, Q-1, R-4, S-2

✗ B. P-3, Q-2, R-1, S-4

✗ C. P-1, Q-3, R-4, S-2

✗ D. P-2, Q-4, R-3, S-1

Q.24 Match the items under List 1 (Elastic properties of isotropic material) with those under List 2 (Nature of strain produced) and select the answer using codes in lists.

	List 1		List 2
P.	Modulus of rigidity	1.	Volumetric strain
Q.	Poisson's ratio	2.	Normal strain
R.	Young's modulus	3.	Transverse strain
S.	Bulk modulus	4.	Shear strain

Ans ✗ A. P- 4, Q- 1, R- 2, S - 3

✗ B. P- 2, Q- 1, R- 3, S - 4

✗ C. P- 3, Q- 4, R- 1, S - 2

✔ D. P- 4, Q- 3, R- 2, S - 1

Q.25 An open channel is in the form of a rectangular cross-section having a bottom width of 2 m. If the hydraulic radius of flow is 0.5 m, determine the depth of flow in the channel.

Ans   ✗ A. 0.25 m

   ✗ B. 2 m

   ✔ C. 1 m

   ✗ D. 0.5 m

Question ID : **97675534653**
Status : **Not Answered**
Chosen Option : **--**

Q.26 For a cement concrete pavement, the load, warping and frictional stresses on the slab are 240 N/mm^2, 320 N/mm^2 and 10 N/mm^2 respectively. The critical combination of stresses during summer (mid day) season is :

Ans   ✔ A. 550 N/mm^2

   ✗ B. 570 N/mm^2

   ✗ C. 560 N/mm^2

   ✗ D. 320 N/mm^2

Question ID : **97675534732**
Status : **Not Answered**
Chosen Option : **--**

Q.27 Among the following chemicals, identify the one which is not used as a disinfectant ?

Ans   ✗ A. Potassium Permanganate

   ✗ B. Bromine

   ✗ C. Iodine

   ✔ D. Fluorine

Question ID : **97675534701**
Status : **Answered**
Chosen Option : **B**

Q.28 In a total station survey work, the leveling of the total station and exact centering at a station are respectively done by using :

Ans   ✗ A. Tripod legs and Optical plummet

   ✔ B. Tripod legs, Levelling Foot screws and Optical plummet

   ✗ C. Optical plummet, tripod legs and circular bubble

   ✗ D. Optical plummet and Automatic compensator

Question ID : **97675534669**
Status : **Answered**
Chosen Option : **D**

Q.29 Among the listed tests on bitumen binders, identify the test which cannot be used as a measure of the consistency of bituminous binder?

Ans ✔ A. Flash and Fire point test

✘ B. Penetration test

✘ C. Furol viscosity test

✘ D. Softening point test

Question ID : **97675534636**
Status : **Answered**
Chosen Option : **B**

Q.30 The permissible stresses under bending and direct compression for M20 concrete, following the working stress method of design of concrete structures as recommended by IS 456: 2000 are respectively (specify values in N/mm^2 units):

Ans ✘ A. 8, 5.5

✘ B. 8.5, 6

✘ C. 5, 4

✔ D. 7, 5

Question ID : **97675534758**
Status : **Answered**
Chosen Option : **D**

Q.31 According to IS 14315 : 1995, the maximum thickness of commercial veneers produced from wood is:

Ans ✔ A. 6 mm

✘ B. 3 mm

✘ C. 12 mm

✘ D. 8 mm

Question ID : **97675534623**
Status : **Answered**
Chosen Option : **B**

Q.32 The type of estimate to cover additional works necessary for the development of project which was not considered in the original estimate, while work is in progress is :

Ans ✔ A. Supplementary estimate

✘ B. Complete estimate

✘ C. Revised estimate

✘ D. Unit rate estimate

Question ID : **97675534647**
Status : **Answered**
Chosen Option : **A**

Q.33 According to CPWD (Central Public works Department, Govt. of India), under the category earth work excavation by mechanical means, identify an equipment that do not come under excavators?

Ans   ✗ A. Dipper showel

     ✗ B. Skimmer

     ✓ C. Dumper

     ✗ D. Clam shell

Q.34 In a highway an ascending gradient of 1 in 55 meets another ascending gradient of 1 in 30, determine the deviation angle ?

Ans

   ✗ A. $\dfrac{2}{85}$

   ✗ B. $\dfrac{1}{55}$

   ✓ C. $\dfrac{1}{66}$

   ✗ D. $\dfrac{17}{330}$

Q.35 The normal stress and shear stress on a failure plane in a drained test on a cohesion less soil are 100 kN/m^2 and 40 kN/m^2 respectively. If the angle of shearing resistance is Φ then:

Ans   ✗ A. $\tan\Phi = 2/3$

     ✗ B. $\tan\Phi = 0.6$

     ✓ C. $\tan\Phi = 0.4$

     ✗ D. $\tan\Phi = 2.5$

Q.36 The surface joining the static water levels in several wells penetrating a confined aquifer represents :

Ans ✗ A. Water table surface

✗ B. Cone of depression

✗ C. Capillary fringe

✓ D. Piezometric surface of aquifer

Question ID : **97675534679**
Status : **Not Answered**
Chosen Option : **--**

Q.37 In a railway line, Identify the turnout that takes off towards the direction opposite to that of the main line curve.

Ans ✗ A. Turnout of Similar flexure

✗ B. Double Turn out

✗ C. Symmetrical Split Turnout

✓ D. Turnout of contrary flexure

Question ID : **97675534719**
Status : **Answered**
Chosen Option : **A**

Q.38 As a part of village development programme of Government of India in the year 2020, to provide village connectivity with all weather road, is known as :

Ans ✗ A. Village Road Development Plan (VRDP)

✗ B. National Highway Development Project (NHDP)

✗ C. Rural Road Development Plan (RRDP)

✓ D. Pradhan Mantri Gram Sadak Yojana (PMGSY)

Question ID : **97675534720**
Status : **Answered**
Chosen Option : **D**

Q.39 A water sample contains $10^{-8.4}$ mole/litre of OH^- ions at $25°$ C. The pH of this sample is:

Ans ✗ A. 8.6

✓ B. 5.6

✗ C. 8.4

✗ D. 5.4

Question ID : **97675534706**
Status : **Not Answered**
Chosen Option : **--**

Q.40 A pressure gauge at an elevation of +8.0 m fitted on the side of a tank containing liquid reads 59 kN/m^3. Another gauge fixed at an elevation of + 5 m reads a pressure of 80kN/m^3. Determine the mass density of liquid (in kg/m^3 units) in the tank. (Take acceleration due to gravity at the place as 10 m/s^2)

Ans ✗ A. 1000

✔ B. 700

✗ C. 800

✗ D. 900

Q.41 A steel built up column is subjected to an axial force of 3000 kN. The lacing system has to be designed for resisting a transverse shear of :

Ans ✔ A. 75 kN

✗ B. 45 kN

✗ C. 30 kN

✗ D. 150 kN

Q.42 The outcome of the spot speed studies carried out at a certain stretch of a highway are as follows.
50th percentile speed = 46 km/h ; 75th percentile speed = 54 km/h ; 85th percentile speed = 60 km/h ; 95th percentile speed = 75 km/h ; 98th percentile speed = 84 km/h ; 100th percentile speed = 95 km/h
What is the speed (in km/h units) to be taken to check the geometric design elements.

Ans ✗ A. 95

✔ B. 84

✗ C. 75

✗ D. 60

Q.43 Degree of saturation of a soil mass is 80% . The air content of the soil mass is :

Ans ✗ A. $\dfrac{1}{0.8}$

✗ B. 0.8

✗ C. 1.2

✔ D. 0.2

Q.44 A trapezoidal plate with sides p and q parallel and horizontal (q > p) is held vertically under a liquid surface with either the side p or q at the top. The total pressure is :

Ans ✗ A. same irrespective of whether side p or q is at top

✗ B. Depends on the thickness of plate, and not on orientation of plate

✗ C. higher when side q is at top

✓ D. higher when side p is at top

Question ID : **97675534697**
Status : **Not Answered**
Chosen Option : **--**

Q.45 Which of the following does not correspond to the recommendations of IRC: 37-2018, for pavement thickness determination by California Bearing Ratio (CBR) method?

Ans ✗ A. The top 50 cm of subgrade should be compacted minimum 97% of maximum Proctor compaction test density .

✓ B. CBR tests are to be conducted in-situ in field

✗ C. For the design of the subgrade soil sample should be compacted at Optimum moisture content to proctor density.

✗ D. At least 3 samples should be tested on each type of soil at the same density and moisture content.

Question ID : **97675534734**
Status : **Answered**
Chosen Option : **A**

Q.46 Arrange the Bogue compound compositions (C3A, C4AF, C3S, C2S) in Ordinary Portland cement in the increasing order (least to the maximum) of their percentage composition : (Symbols : C3A : Tricalcium aluminate; C4AF : Tetracalcium Alumino ferrite; C3S : Tricalcium silicate; C2S : Dicalcium silicate)

Ans ✗ A. C2S, C3S, C4AF, C3A

✗ B. C3A, C2S, C4AF, C3S

✗ C. C3S, C3A, C2S, C4AF

✓ D. C4AF, C3A, C2S, C3S

Question ID : **97675534632**
Status : **Answered**
Chosen Option : **A**

Q.47 Among the following methods listed for the evaluation of depreciation , identify the method which is not used for the determination of depreciation of a multistoried building.

Ans ✗ A. Sinking fund method

✗ B. Straight line method

✗ C. Declining balance method

✓ D. Amortization method

Question ID : **97675534644**
Status : **Answered**
Chosen Option : **D**

Q.48 Among the following construction materials, identify the one having the minimum value of density?

Ans ✔️ A. Water

❌ B. Steel

❌ C. Brick

❌ D. Ordinary Portland Cement

Question ID : **97675534630**
Status : **Answered**
Chosen Option : **A**

Q.49 वह विकल्प चुनें, जो ध्वनि स्तर कि वह अभिलक्षण नहीं है, जिसका परिमाण निर्धारित नहीं किया जा सकता।

Ans ❌ A. शक्ति

❌ B. तीव्रता (Intensity)

✔️ C. प्रबलता (Loudness)

❌ D. दाब स्तर

Question ID : **97675534707**
Status : **Answered**
Chosen Option : **C**

Q.50 In the design of highways, identify the factor which is not taken into account for the computation of breaking distance ?

Ans ✔️ A. Reaction time of driver

❌ B. Gradient

❌ C. Speed

❌ D. Co-efficient of friction

Question ID : **97675534722**
Status : **Answered**
Chosen Option : **A**

Q.51 To raise the pH of potable water in a water treatment plant, an effective chemical used is :

Ans ❌ A. Alum

❌ B. Calcium chloride

✔️ C. Lime

❌ D. Polyphosphates

Question ID : **97675534770**
Status : **Answered**
Chosen Option : **A**

Q.52 The minimum stripping time of soffit formwork to slabs (props to be refixed immediately after removal of form work) is:

Ans ✗ A. 16 to 24 hours

✗ B. 14 days

✗ C. 7 days

✓ D. 3 days

Q.53 As per CPHEO (Central Public Health & Environmental Engineering Organization) guidelines, the standard rate of filtration (in litre per minute/m^2 units) through a rapid sand filter is in the range:

Ans ✗ A. 200 to 300

✗ B. 10 to 30

✗ C. 30 to 50

✓ D. 80 to 100

Q.54 A smart station used in surveying consists of :

Ans ✗ A. A total with software to calculate the and display of quantities

✗ B. Total station with an electromagnetic distance measuring equipment

✓ C. A total station with an integrated GPS module

✗ D. A Total station attached to a computer

Q.55 In working stress method of reinforced cement concrete design, the stress strain relationship of concrete and steel under working loads follows :

Ans ✓ A. Straight line

✗ B. Cubic parabola

✗ C. Parabolic

✗ D. Semi-circle

Q.56 Among the assumptions listed, identify the valid assumptions for the application of Bernoulli's equation in fluid flow analysis.

1. Flow is rotational.
2. Flow is irrotational.
3. Flow is incompressible.
4. Flow is steady
5. Flow is laminar/turbulent
6. Flow is continuous and velocity is uniform over a section.

Choose the answer using codes

Ans ✅ A. 2, 3, 4, 6 only

❌ B. 1, 3, 4, 5, 6 only

❌ C. 1, 3, 4, 5 only

❌ D. 1, 2, 5, 6 only

Question ID : **97675534696**
Status : **Answered**
Chosen Option : **A**

Q.57 Identify a secondary pollutant with respect to air pollution from the following:

Ans ❌ A. Particulate matter

✅ B. Peroxy Acetyl Nitrate (PAN)

❌ C. Hydrocarbons

❌ D. Nitrogen oxides

Question ID : **97675534712**
Status : **Answered**
Chosen Option : **A**

Q.58 As per IS classification Coarse sand size particle are of diameter ranging from :

Ans ❌ A. 4.75 mm to 20 mm

✅ B. 2 mm to 4.75 mm

❌ C. 0.075 mm to 0.425 mm

❌ D. 2 mm to 0.425 mm

Question ID : **97675534689**
Status : **Answered**
Chosen Option : **B**

Q.59 The test performed to determine the compressive strength of hardened concrete in an existing structure without causing any damage to the structure is :

Ans ❌ A. Cone penetrometer test

❌ B. Split test

✅ C. Rebound Hammer test

❌ D. Bullet test

Question ID : **97675534751**
Status : **Answered**
Chosen Option : **C**

Q.60 A tacheometer was set up at a station P and observations were taken on a staff held at Q, the vertical circle reading being zero. The readings corresponding to the three stadia hairs are 1.9 m, 1.6 m, and 1.3 m respectively. The reading (middle cross-hair with vertical circle reading zero) from P to staff held vertically at a Bench mark of elevation +100.0 m is 2.5 m. The horizontal distance PQ and the elevation of point Q are respectively : (Assume multiplication constant as 100 and additive constant as zero for the tacheometer)

Ans ✗ A. 60 m; 101.3 m

✗ B. 45 m; 100.6 m

✓ C. 60 m; 100.9 m

✗ D. 30 m; 101.6 m

Question ID : 97675534673
Status : **Not Answered**
Chosen Option : --

Q.61 The ratio of young's modulus of structural mild steel to that of high tensile structural steel is about:

Ans ✓ A. 1

✗ B. 1.5

✗ C. 2

✗ D. 0.5

Question ID : 97675534624
Status : **Answered**
Chosen Option : **D**

Q.62 Which of the following is not correctly matched ?

Ans ✓ A. Soundness test : Stripping value of aggregates

✗ B. Marshall method : Bituminous mix design

✗ C. Penetration test : Hardness or softness of bitumen

✗ D. Los Angeles Test : Hardness of aggregates

Question ID : 97675534728
Status : **Answered**
Chosen Option : **A**

Q.63 Consider the following statements S1 and S2 and **choose the appropriate answer:**
S1 : Noise pollution can be reduced by using double glass window panes.
S2 : The noise totally reflects back due to the two layers of glass.

Ans ✗ A. Both S1 and S2 are correct, but S2 is not the correct explanation of S1

✗ B. S1 is True and S2 is False

✓ C. S1 is False and S2 is True

✗ D. Both S1 and S2 are correct, and S2 is the correct explanation of S1

Question ID : 97675534717
Status : **Not Answered**
Chosen Option : --

Q.64 Among the chemicals given, identify the one which is not an ozone layer depleting chemical?

Ans   ✔ A. Copper sulphate

     ✘ B. Hydrochloric acid

     ✘ C. Carbon tetrachloride

     ✘ D. Methyl chloride

Q.65 At highway stretches where the required overtaking sight distance cannot be provided, it is necessary to incorporate in such sections of the following :

Ans   ✘ A. One third of the required overtaking sight distance

     ✘ B. Three times the stopping sight distance

     ✔ C. At least twice the stopping sight distance

     ✘ D. Half of the required overtaking sight distance

Q.66 The magnetic bearing of a line is 45° 15′. If the declination at the place is 3° 15′ E, the true bearing of the line is :

Ans   ✘ A. 38° 45 ′

     ✔ B. 48° 30′

     ✘ C. 42°

     ✘ D. 45° 15 ′

Q.67 External force driving the Open channel flow is :

Ans   ✘ A. Pressure force

     ✘ B. Viscous force

     ✔ C. Gravity Force

     ✘ D. Surface tension force

Q.68 The void ratio for a soil deposit was determined at the loosest, densest, and natural states as 0.8, 0.4, and 0.6 respectively. Determine the relative density of the soil deposit.

Ans
- ✗ A. 40%
- ✗ B. 60%
- ✗ C. 75%
- ✓ D. 50%

Q.69 According to IS 303: 1989, the thickness of plywood boards (in mm units) in a 3 ply board is:

Ans
- ✗ A. 3, 5, 7,9
- ✓ B. 3,4,5,6
- ✗ C. 4,5,6,7
- ✗ D. 2,3,4,6

Q.70 In conducting a standard consistency test of Ordinary Portland cement using Vicat apparatus as per IS 4031-1988, what is the penetration depth of the needle from the top of Vicat mould, for the paste to have normal consistency?

Ans
- ✗ A. 43 to 47 mm
- ✗ B. 23 to 27 mm
- ✓ C. 33 to 35 mm
- ✗ D. 13 to 17 mm

Q.71 The compressibility characteristic of soils, with equal plasticity index, with liquid limit increasing :

Ans
- ✗ A. Decreases and then remains constant
- ✗ B. Decreases
- ✓ C. Increases
- ✗ D. Remains constant

Q.72 As per Central Pollution Control Board (CPCB) India, the permitted values of noise level in a silence zone during the day time and night time are respectively :

Ans ✔ A. 50 dB(A) and 40 dB(A)

✘ B. 70 dB(A) and 60 dB(A)

✘ C. 65 dB(A) and 55 dB(A)

✘ D. 55 dB(A) and 50 dB(A)

Question ID : **97675534708**
Status : **Answered**
Chosen Option : **D**

Q.73 Consider a horizontal section of a cylinder normal to side face. The normal stress acting along the circumference of the cylinder is known as :

Ans ✘ A. Proof stress

✘ B. Longitudinal stress

✘ C. Tangential stress

✔ D. Hoop stress

Question ID : **97675534738**
Status : **Answered**
Chosen Option : **D**

Q.74 The correct order of filter materials (Sand, Anthracite Coal, Garnet) to be provided in a multi-media gravity filter from Bottom to top is :

Ans ✔ A. Garnet, Sand, Anthracite Coal

✘ B. Sand, Anthracite Coal, Garnet

✘ C. Anthracite Coal, Garnet, Sand

✘ D. Anthracite Coal, Sand, Garnet

Question ID : **97675534704**
Status : **Answered**
Chosen Option : **A**

Q.75 The characteristics of contours are given in statements S1, S2 and S3.

S1 : Two contour lines of different elevations can cross each other in the case of an overhanging cliff.
S2 : Generally the contour lines donot cross a valley or a ridge line at right angle.
S3 : A contour line passing through a point is at right angle to the line of maximum slope at that point.
Identify the wrong statement(s).

Ans ✔ A. S2 only

✘ B. S3 only

✘ C. S1 only

✘ D. S1 and S3

Question ID : **97675534671**
Status : **Answered**
Chosen Option : **B**

Q.76 For a constant value of co-efficient of lateral friction the value of required super elevation :

Ans ✗ A. Decreases with Increase in speed and decrease in radius of curve

✔ B. Increases with Increase in speed and decrease in radius of curve

✗ C. Increases with decrease in both speed and radius of curve

✗ D. Increases with Increase in both speed and radius of curve

Question ID : **97675534736**
Status : **Not Answered**
Chosen Option : **--**

Q.77 The saturated unit weight of a soil sample is estimated as 20.64 kN/m^3. If the unit weight of water is 10 kN/m^3 estimate the submerged unit weight of soil (in kN/m^3 units) ?

Ans ✗ A. 2.064

✔ B. 10.64

✗ C. 20.64

✗ D. 30.64

Question ID : **97675534684**
Status : **Answered**
Chosen Option : **B**

Q.78 The distance in the Y-direction to the centroid of a semicircular lamina of radius a with respect to the diameter chord kept along the X-axis is :

Ans ✗ A. $\dfrac{5a}{3\pi}$

✔ B. $\dfrac{4a}{3\pi}$

✗ C. $\dfrac{3a}{4\pi}$

✗ D. $\dfrac{2a}{3\pi}$

Question ID : **97675534737**
Status : **Not Answered**
Chosen Option : **--**

Q.79 When movement of a wall under the earth pressure from a backfill of sandy soil was prevented, the co-efficient of earth pressure was recorded as 0.5. The ratio of co-efficient of active earth pressure to co-efficient of and passive earth pressure of the back fill is :

Ans

✗ A. $\dfrac{1}{3}$

✗ B. 9

✓ C. $\dfrac{1}{9}$

✗ D. 3

Question ID : 97675534693
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.80 According to IS 800:2007, the recommended values of the following physical properties : Unit mass (ρ), Modulus of Elasticity (E), and Poisson's ratio (μ) of structural steel (irrespective of the grade) for use in design, are to be taken as:

Ans

✓ A. $\rho = 7850 \text{ kg/m}^3 ; E = 2 \times 10^5 \text{ MPa} ; \mu = 0.3$

✗ B. $\rho = 9850 \text{ kg/m}^3 ; E = 2 \times 10^6 \text{ MPa} ; \mu = 0.4$

✗ C. $\rho = 785 \text{ kg/m}^3 ; E = 2\,000 \text{ MPa} ; \mu = 0.25$

✗ D. $\rho = 6850 \text{ kg/m}^3 ; E = 2 \times 10^4 \text{ MPa} ; \mu = 0.2$

Question ID : 97675534766
Status : **Answered**
Chosen Option : **A**

Q.81 Consider the following statements with respect to centrifugal pumps : S1, S2, S3, and S4. Choose the correct statement (s)

S1 : Pumps in series operation allow the head to increase.
S2 : Pumps in series operation increase the flow rate.
S3 : Pumps in parallel operation increase the flow rate.
S4 : Pumps in parallel operation allow the head to increase.

Ans

✓ A. S1 and S3

✗ B. S3 and S4

✗ C. S1 and S2

✗ D. S2 and S4

Question ID : 97675534652
Status : **Not Answered**
Chosen Option : --

Q.82 The number of minerals arranged in the Moh's scale of hardness is:

Ans ✗ A. 8

✓ B. 10

✗ C. 12

✗ D. 15

Question ID : **97675534621**
Status : **Answered**
Chosen Option : **B**

Q.83 The pore water pressure in the capillary zone of soil is :

Ans ✓ A. Negative

✗ B. zero

✗ C. positive

✗ D. Can be positive or negative

Question ID : **97675534675**
Status : **Answered**
Chosen Option : **D**

Q.84 A clay layer 10 m thick in the field takes 400 days to attain 50% consolidation with the condition of double drainage. If the same clay layer is underlain by a hard rock then the time taken to attain 50% consolidation is :

Ans ✗ A. 100 days

✗ B. 800 days

✓ C. 1600 days

✗ D. 200 days

Question ID : **97675534769**
Status : **Not Answered**
Chosen Option : **--**

Q.85 In an experiment it is found that the bulk modulus of elasticity of a material is equal to its shear modulus. The Poisson's ratio of the material is :

Ans ✗ A. 0.375

✗ B. 0.25

✓ C. 0.125

✗ D. 0.5

Question ID : **97675534740**
Status : **Answered**
Chosen Option : **D**

Q.86 Methemoglobinemia found in infants is due to excessive presence of the following pollutant in drinking water:

Ans ✔ A. Nitrates

✘ B. Fluoride

✘ C. Chlorides

✘ D. Sulphates

Q.87 The following statements (S1, S2, S3) pertain to Plane table surveying. Identify the correct statements.
S1 : The three point problem is a problem of resection.
S2 : The two point problem is not a problem of resection.
S3 : Two point problem is a problem of finding the line joining two points.

Ans ✔ A. S1 only

✘ B. S1 and S2

✘ C. S2 and S3

✘ D. S2 only

Q.88 Estimate the quantity of first class arch work (in m^3 units) for an opening of span 2 m subtending 60° angle at centre and 20 cm thick to be provided in a 20 cm thick brick wall?

Ans ✘ A. 0.0056π

✘ B. 0.007π

✔ C. 0.028π

✘ D. 0.28π

Q.89 Among the Prohibitory signs used as Traffic signs, identify the one which having a different shape with respect to the others.

Ans ✘ A. Speed limit sign

✔ B. Give way sign

✘ C. Horn Prohibited sign

✘ D. One- Way sign

Q.90 The co-efficient of softening for clay material is:

Ans ✗ A. 1.0

✔ B. Zero

✗ C. 0.6

✗ D. 1.5

Q.91 Two statements (S1 and S2) pertain to a soil mass are given.
S1 : A high value of dry unit weight indicates a more compact soil.
S2 : A soil is said to be pre-consolidated or over consolidated if the existing effective stress
is more than then the pre-consolidation stress
Give the inference about the validity of statements.

Ans ✔ A. Statement S1 is True and S2 is False.

✗ B. Both statements S1 and S2 are False.

✗ C. Statement S1 is False and S2 is True.

✗ D. Both statements S1 and S2 are True.

Q.92 As per IS 456 : 2000, in reinforced and plain concrete footings on soils, the thickness at the
edge, shall not be less than :

Ans ✗ A. 120 mm

✔ B. 150 mm

✗ C. 250 mm

✗ D. 300 mm

Q.93 If L is the length to any point on the transition curve, and R is the radius of curvature, then
the fundamental requirement of the transition curve is given by the condition : (Notation C -
an arbitrary constant)

Ans ✔ A. $L R = C$

✗ B. $\dfrac{L^2}{R} = C$

✗ C. $\dfrac{L^2}{2R} = C$

✗ D. $\dfrac{L}{R} = C$

Q.94 The defect in a painting work is indicated as "the loosening of certain portion of paint films due to failure of bond or lack of adhesion with the under coats". The defect is known as:

Ans ✗ A. Bloom

✗ B. Saponification

✓ C. Flaking

✗ D. Crawling

Question ID : **97675534626**
Status : **Answered**
Chosen Option : **C**

Q.95 The methodology used for the design of Rigid highway pavements is :

Ans ✓ A. Elastic Plate theory

✗ B. Rigid Plate theory

✗ C. Infinite layer theory

✗ D. Grain to Grain Transfer of load in a layered system

Question ID : **97675534733**
Status : **Answered**
Chosen Option : **B**

Q.96 In connection with inspection and testing of concrete structures as per IS 456:2000, while conducting load tests on flexural members, what is the load (L) and minimum duration of load application(T) on the structure ? (Use notations as : DL : dead Load, IL : Imposed load)

Ans ✗ A. L = DL + IL ; T = 48 hours

✗ B. L = DL + 2 × IL ; T = 7 days

✓ C. L = DL + 1.25 × IL ; T = 24 hours

✗ D. L = DL +1.5 × IL ; T = 72 hours

Question ID : **97675534755**
Status : **Not Answered**
Chosen Option : **--**

Q.97 A soil sample is subjected to laboratory sieve analysis using a complete set of standard IS sieves. Out of 3 kg of soil used in the test, 1200 gram was retained on IS 600 micron sieve, 1500 gram was retained on IS 500 micron sieve and the remaining 300 gram was retained on IS 425 micron sieve. The uniformity co-efficient for the soil is :

Ans ✗ A. 0.71

✓ B. 1.2

✗ C. 1.41

✗ D. 0.83

Question ID : **97675534688**
Status : **Answered**
Chosen Option : **C**

Q.98 Consider the following statements in connection with daily per capita demand value of water supply.

S1 : Per capita demand for big cities is generally small when compared to that for small towns.

S2 : Industrial and commercial activities of a city increases the per capita demand of water.

S3 : Fixed monthly rate policy of water use charging has more per capita demand when compared to charging based on actual meter reading.

Identify the correct statement (s).

Ans   ✗ A. S1 and S2 only

   ✗ B. S2 only

   ✗ C. S3 only

   ✓ D. S2 and S3 only

Question ID : **97675534710**
Status : **Answered**
Chosen Option : **D**

Q.99 Flexible pavements derive stability mainly from:

Ans   ✓ A. Aggregate interlock, particle friction, and cohesion

   ✗ B. Flexural strength of surface course

   ✗ C. Beam and slab action of the surface course

   ✗ D. Binding power of flexible materials

Question ID : **97675534727**
Status : **Answered**
Chosen Option : **B**

Q.100 In plate girders, the purpose of providing intermediate transverse web stiffeners is :

Ans   ✗ A. Prevent local crushing of web due to concentrated loading

   ✓ B. Improve the Buckling strength of slender web due to shear.

   ✗ C. Prevent local buckling of slender web due to concentrated loading

   ✗ D. Transmit tensile forces applied to a web through a flange.

Question ID : **97675534765**
Status : **Answered**
Chosen Option : **B**

Q.101 Find the steepest gradient on a 2° curve for a BG railway line track with a ruling gradient of 1 in 200.

Ans   ✗ A. 1 in 172

   ✗ B. 1 in 150

   ✗ C. 1 in 278

   ✓ D. 1 in 238

Question ID : **97675534724**
Status : **Not Answered**
Chosen Option : **--**

Q.102 चार प्रकार की तप्त चिकनी मृदा की ईंटों P, Q, R और S की विमाएं नीचे दी गई हैं। उनमें से कौन सी एक IS 1077 : 1992 के अनुसार, सामान्य तप्त चिकनी मृदा की इमारत ईंट के मानक मॉड्यूलर आकार की श्रेणी में आती है। (ईंटों की सभी विमाएं mm इकाई में हैं)

P : 230 x 110 x 70; Q : 230 x 110 x 30; R : 190 x 100 x 90; S : 190 x 90 x 90

Ans ✗ A. R

✔ B. S

✗ C. Q

✗ D. P

Question ID : **97675534625**
Status : **Answered**
Chosen Option : **B**

Q.103 Among the following flow measuring equipments, identify the equipment which cannot be used for measuring the discharge through pipes.

Ans ✗ A. Pitot tube and cross section area of pipe

✗ B. Venturimeter

✗ C. Orifice meter

✔ D. Triangular notch

Question ID : **97675534695**
Status : **Answered**
Chosen Option : **A**

Q.104 Determine the quantity of bleaching powder required for a rural water supply scheme so as to chlorinate 20000 litre of water, whose chorine demand is 2 mg/l. Assume the bleaching powder has 40% available chlorine.

Ans ✗ A. 40 gram

✔ B. 100 gram

✗ C. 16 gram

✗ D. 200 gram

Question ID : **97675534716**
Status : **Not Answered**
Chosen Option : **--**

Q.105 In concrete mix design of M40 grade concrete, assuming the standard deviation value of characteristic strength of concrete as in IS 456:2000, the target mean strength of concrete mix (in N/mm^2 units) is expected is :

Ans ✗ A. 46.25

✔ B. 48. 25

✗ C. 47.5

✗ D. 50

Question ID : **97675534754**
Status : **Not Answered**
Chosen Option : **--**

Q.106 The bending moment diagram of a simply supported beam AC is shown in figure. The load acting on the beam is :
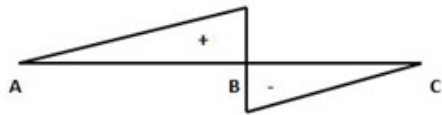
Ans ✅ A. A couple load applied at the point B

❌ B. A uniformly distributed load over the whole length of beam AC

❌ C. Equal and Opposite moments applied at A and C

❌ D. A concentrated load at the point B

Q.107 Determine the length dimension of a rectangular sedimentation tank to treat a flow of 4 Million litre/day to provide a . detention time = 3 hours. Mean Flow velocity is not to exceed 2 mm/s.

Ans ❌ A. 18.4 m

❌ B. 14.4 m

✅ C. 21.6 m

❌ D. 19.6 m

Q.108 In industrial buildings, the permissible maximum vertical deflection (under serviceability) for purlins /Girts of length 3.6 m, supporting elastic cladding, for design load(live load/wind load), as per IS 800:2007 is :

Ans ❌ A. 15 mm

❌ B. 30 mm

✅ C. 24 mm

❌ D. 20 mm

Q.109 From the different types of soils given, identify the soil having low values of specific gravity (may fall below 2)?

Ans ✅ A. Organic soil

❌ B. Inorganic clay

❌ C. Clean sand and gravel

❌ D. Soil high in mica and iron

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Q.110 Determine the radius of a simple circular curve (in m units) if it is designated as a 3 degree curve on a 30 m arc.

Ans
- ✗ A. $\dfrac{5400}{\pi}$
- ✗ B. $\dfrac{1080}{\pi}$
- ✓ C. $\dfrac{1800}{\pi}$
- ✗ D. $\dfrac{900}{\pi}$

Question ID : **97675534667**
Status : **Not Answered**
Chosen Option : **--**

Q.111 Additional tensile force developed in a bolt as a result of the flexing of a connection component such as a beam end plate or leg of an angle is known as :

Ans
- ✗ A. Normal force
- ✓ B. Prying force
- ✗ C. Racking force
- ✗ D. Bearing force

Question ID : **97675534764**
Status : **Answered**
Chosen Option : **C**

Q.112 The ratio of weight of aggregate passing through the slot of the thickness gauge to the total weight of sample and expressed in percentage is known as:

Ans
- ✗ A. Toughness index
- ✗ B. Elongation Index
- ✗ C. Plasticity index
- ✓ D. Flakiness index

Question ID : **97675534635**
Status : **Answered**
Chosen Option : **D**

Q.113 Among the gases given, identify the one that donot belong to the category of Green House gases :

Ans
- ✓ A. Carbon monoxide
- ✗ B. Methane
- ✗ C. Chlorofluorocarbons
- ✗ D. Nitrous Oxide

Question ID : **97675534713**
Status : **Answered**
Chosen Option : **D**

Q.114 The minimum width of carriage way recommended by IRC for kerbed urban road, so as to give allowance for stalled vehicle is :

Ans   ✗ A. 3.5 m

     ✗ B. 7 m

     ✗ C. 3.75 m

     ✔ D. 5.5 m

Question ID : **97675534718**
Status : **Answered**
Chosen Option : **C**

Q.115 While doing earthwork, mounds of earth left undisturbed in pits dug out for borrowing earth is known as :

Ans   ✔ A. Deadmen

     ✗ B. Joggle

     ✗ C. Burjis

     ✗ D. Jamb

Question ID : **97675534640**
Status : **Answered**
Chosen Option : **A**

Q.116 As per IS 456: 2000, determine the minimum eccentricity of the axial load, for an axially loaded column of size 300 mm X 300 mm, having an effective length of 3.5 m ?

Ans   ✗ A. 25 mm

     ✔ B. 20 mm

     ✗ C. 17 mm

     ✗ D. 10 mm

Question ID : **97675534762**
Status : **Not Answered**
Chosen Option : **--**

Q.117 A sample of water when tested for hardness, gave total hardness value of 450 mg/l, and alkalinity value of 150 mg/l (on $CaCO_3$ scale) respectively. The carbonate and non-carbonate hardness of the sample (in mg/l units) are respectively :

Ans   ✗ A. 150 ; 450

     ✗ B. 600 ; 450

     ✔ C. 150 ; 300

     ✗ D. 600 ; 300

Question ID : **97675534709**
Status : **Not Answered**
Chosen Option : **--**

Q.118 The relationship between the length l and radius r of an ideal transition curve is stated as:

Ans

✗ A. $l \, \alpha \, r$

✗ B. $l \, \alpha \, r^2$

✔ C. $l \, \alpha \, \dfrac{1}{r}$

✗ D. $l \, \alpha \, \dfrac{1}{r^2}$

Question ID : **97675534655**
Status : **Not Answered**
Chosen Option : **--**

Q.119 According to IS 456 :2000, the design bond stress (in N/mm^2 units) in limit state method for HYSD bars (Fe415 grade) for M30 grade concrete is :

Ans

✔ A. 2.4

✗ B. 1.5

✗ C. 2.56

✗ D. 1.92

Question ID : **97675534761**
Status : **Answered**
Chosen Option : **D**

Q.120 What is the maximum permissible length of Tractor and Trailer combination of vehicle permitted in Highway roads of India as per IRC ?

Ans

✗ A. 10 m

✗ B. 16 m

✔ C. 18 m

✗ D. 20 m

Question ID : **97675534721**
Status : **Answered**
Chosen Option : **C**

Q.121 The back bearing of a line is N 20° E. The corresponding fore bearing of the line is :

Ans

✔ A. S 20° W

✗ B. N 20° E

✗ C. N 70° E

✗ D. S 70° W

Question ID : **97675534658**
Status : **Answered**
Chosen Option : **A**

Q.122 As suggested by IS 456 : 2000, the minimum grade of concrete, and the corresponding cement content(in kg/m^3 units), maximum water cement ratio, for Extreme exposure conditions, in reinforced concrete work with 20 mm nominal size aggregates are respectively :

Ans ✗ A. M45, 330, 0.45

✗ B. M40, 300, 0.5

✓ C. M40 ; 360 , 0.4

✗ D. M50, 360, 0.5

Question ID : **97675534757**
Status : **Answered**
Chosen Option : **B**

Q.123 Comment on the following statements (S1, S2) as True/False:

S1 :Obsolescence is the loss in the value of the property due of change of design, fashion, change of utility in demand.
S2 : More the age of a building, less the amount for depreciation.

Ans ✗ A. Both S1 and S2 are True

✗ B. Statement S1 is False and statement S2 is True.

✗ C. Both statements S1 and S2 are False

✓ D. Statement S1 is True and statement S2 is False

Question ID : **97675534645**
Status : **Answered**
Chosen Option : **D**

Q.124 A residential building fetches a monthly gross rent of Rs. 6000 . The annual outgoings in the form of taxes and other contingencies is Rs. 12,000 . The cost of land comes to Rs. 2,00,000 . Estimate the total value of property on a yearly basis. Assume the rate of interest as 6% per annum.

Ans ✗ A. Rs.14,00,000

✗ B. Rs.10,00,000

✓ C. Rs.12,00,000

✗ D. Rs.2,60,000

Question ID : **97675534643**
Status : **Not Answered**
Chosen Option : **--**

Q.125 Two pipe systems connected in series are said to be equivalent under the condition:

Ans ✓ A. The discharge under the same head is same in both systems,

✗ B. The average friction factor in both systems is the same

✗ C. Total length of the pipe is the same in both the systems

✗ D. The average diameter in both systems is the same.

Question ID : **97675534654**
Status : **Answered**
Chosen Option : **A**

Q.126 The unit weight of reinforced concrete (in kN/m^3 units) made with sand and crushed natural stone aggregate is :

Ans   ✗ A. 26

     ✗ B. 24

     ✗ C. 28

     ✔ D. 25

Question ID : **97675534748**
Status : **Answered**
Chosen Option : **D**

Q.127 The scale of a map is represented as 1 : 100000. The distance between two points A and B is measured as 10 cm in the map. The actual distance between the two points in the field is :

Ans   ✔ A. 10 km

     ✗ B. 100 km

     ✗ C. 100 m

     ✗ D. 1 km

Question ID : **97675534661**
Status : **Answered**
Chosen Option : **A**

Q.128 At the plastic limit, the soil is friable (easily crushed), the toughness index of the soil is :

Ans   ✗ A. Range 2 to 3

     ✗ B. Between 1 and 2

     ✔ C. Less than 1

     ✗ D. Equal to 1

Question ID : **97675534683**
Status : **Answered**
Chosen Option : **C**

Q.129 In a total station, the range of reflectorless measurements depends on:

Ans   ✗ A. Scattering property of target

     ✗ B. Surface roughness of target

     ✗ C. Conductivity of target

     ✔ D. Reflectivity of target

Question ID : **97675534659**
Status : **Answered**
Chosen Option : **D**

Q.130 The thin surface treatment used to water proof the surface and provide skid resistance in flexible pavements is :

Ans   ✗ A. Prime Coat

     ✗ B. Base Coat

     ✔ C. Seal Coat

     ✗ D. Tack Coat

Question ID : **97675534731**
Status : **Answered**
Chosen Option : **A**

Q.131 In a levelling work the following readings were taken with a dumpy level as 2.05, 0.525, 1.875, 1.21, 3.245, 1.94, 0.975, 2.875 (in m units). If the instrument was shifted after the second and fifth readings, the readings recorded in the foresight column is :

Ans   ✔ A. 0.525, 3.245, 2.875

     ✗ B. 0.525, 1.94, 2.875

     ✗ C. 2.05, 1.875, 1.94

     ✗ D. 1.875, 1.94, 2.875

Question ID : **97675534672**
Status : **Answered**
Chosen Option : **A**

Q.132 The permissible limit values of sulphates (in mg/l units) in water used for concrete work is :

Ans   ✗ A. 2000

     ✔ B. 400

     ✗ C. 500

     ✗ D. 250

Question ID : **97675534750**
Status : **Answered**
Chosen Option : **B**

Q.133 A trapezoidal canal with a side slope 2 : 1 (horizontal : vertical) is to be formed in cutting for conveying water to a field. The dimensions of the canal are as follows : Bottom width of canal = 2 m; Depth of canal = 1 m. Work out the cost of lining the canal (in Rs.) using Geotextile material per km length. Assume the rate of lining canal with Geotextile material as Rs. 100 per Sq.m:

Ans   ✗ A. 400000

     ✗ B. $200000(1 + \sqrt{3})$

     ✗ C. 250000

     ✔ D. $200000(1 + \sqrt{5})$

Question ID : **97675534648**
Status : **Not Answered**
Chosen Option : **--**

Q.134 The plasticity index value for a coarse grained soil can be expected as:

Ans ✖ A. 4 to 7

✔ B. Zero

✖ C. 7 to 10

✖ D. 10 to 17

Question ID : **97675534676**
Status : **Answered**
Chosen Option : **B**

Q.135 The minimum number of cores to be taken for core test, in connection with inspection and safety of concrete structures is :

Ans ✔ A. 3

✖ B. 2

✖ C. 5

✖ D. 4

Question ID : **97675534749**
Status : **Answered**
Chosen Option : **A**

Q.136 When moisture content of sludge is reduced from 95% to 90%, its volume is :

Ans ✖ A. Reduced by 5%

✖ B. Reduced by 25%

✔ C. Reduced by 50%

✖ D. Reduced by 10%

Question ID : **97675534705**
Status : **Not Answered**
Chosen Option : **--**

Q.137 The ability of concrete to remain a stable, homogeneous, coherent mass without segregation both during handling and during vibrations is termed as :

Ans ✖ A. Flexibility

✖ B. Mobility

✖ C. Consistency

✔ D. Stability

Question ID : **97675534752**
Status : **Answered**
Chosen Option : **C**

Q.138 The unit of measurement of stone work in wall facing or lining (with thickness specified) is :

Ans　✗ A. Either in Square metre or Cubic metre

　　✗ B. Running metre

　　✗ C. Cubic metre

　　✔ D. Square metre

Q.139 Which of the following does not come under Atterberg limits used to indicate the consistency of clays ?

Ans　✔ A. Liquefaction limit

　　✗ B. Plastic limit

　　✗ C. Shrinkage limit

　　✗ D. Liquid limit

Q.140 एक साधारण वृत्ताकार वक्र स्थापित करने के लिए प्रयुक्त दो थियोडोलाइट विधि (Two theodolite method) के पीछे का सिद्धांत क्या है?

Ans　✔ A. वक्र के बिंदु पर स्पर्शरेखा और एक बिंदु पर जीवा के बीच का कोण, उस कोण के बराबर होता है, जिसे वह जीवा स्पर्शरेखा के बिंदु पर विपरीत खंड में अंतरित करती है।

　　✗ B. वक्र के किसी भी बिंदु पर विक्षेपण कोण, वक्र के बिंदु पर पश्च स्पर्शरेखा और वक्र के बिंदु से उस बिंदु तक जीवा के बीच का कोण होता है।

　　✗ C. वक्र के बिंदु पर स्पर्शरेखा और एक बिंदु पर जीवा के बीच का कोण, उस कोण के दोगुने के बराबर होता है, जो वह जीवा स्पर्शरेखा के बिंदु पर विपरीत खंड में अंतरित करती है।

　　✗ D. किसी भी जीवा के लिए विक्षेपण कोण, पिछली जीवा के विक्षेपण कोण और उस जीवा के स्पर्शरेखीय कोण के योग के बराबर होता है।

Q.141 A simply supported prismatic beam of span 1 m carries a load of 1 N at the centre of span. The slope at the left end in terms of EI is : (Notation : E - modulus of elasticity of beam, I - Moment of Inertia of beam section)

Ans　✗ A. $\dfrac{1}{4EI}$

　　✗ B. $\dfrac{1}{8EI}$

　　✗ C. $\dfrac{1}{32EI}$

　　✔ D. $\dfrac{1}{16EI}$

Q.142 A homogeneous simply supported prismatic beam of width B, depth D and span L is subjected to a concentrated load of magnitude 100 kN. The load can be placed anywhere along the span of beam. The maximum flexural stress developed in the beam is :

Ans

✗ A. $\dfrac{300\,L}{B\,D^2}$

✔ B. $\dfrac{150\,L}{BD^2}$

✗ C. $\dfrac{75L}{BD^2}$

✗ D. $\dfrac{25L}{2BD^2}$

Q.143 Identify the defect in timber which is not caused by seasoning of timber:

Ans ✗ A. Checks

✗ B. Splitting

✗ C. Warpage

✔ D. Knots

Q.144 What is the total centre line length of the plan shown in Figure ? The thickness of all walls are to be taken as 30 cm.
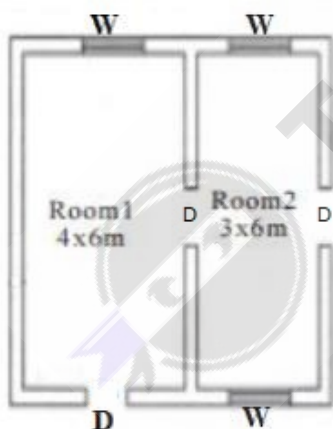
Ans ✗ A. 32.65 m

✗ B. 32.9 m

✗ C. 32 m

✔ D. 34.1 m

Q.145 Under limit state of collapse condition, the design of a singly reinforced balanced beam section for a span of 4 m was carried out using two type of steel : case A :Mild steel ; Case B : HYSD steel- Fe415 grade. The inference about the limiting values of the depth of neutral axis $x_{u,max}$ in the two cases is :

Ans

✅ A. $x_{u,max}$ in Case A $>$ $x_{u,max}$ in Case B

❌ B. $x_{u,max}$ in Case A $<$ $x_{u,max}$ in Case B

❌ C.
$x_{u,max}$ in Case A can be greater or smaller or equal to $x_{u,max}$ in Case B.

❌ D. $x_{u,max}$ in Case A $=$ $x_{u,max}$ in Case B

Q.146 For estimating the flow in sanitary sewers in high ground water table locations, an allowance for ground water infiltration into sewer is to be made. According to the guidelines of CPHEEO, Govt. of India, the design infiltration value shall be limited to :

Ans

❌ A. 20% of the design value of sewage flow

❌ B. 50% of the design value of sewage flow

❌ C. 5% of the design value of sewage flow

✅ D. 10% of the design value of sewage flow

Q.147 The plume that occurs under strong wind velocity, when the lapse rate is near adiabatic condition (neutral), and the plume touches the ground at greater horizontal distance is :

Ans

❌ A. Lofting plume

✅ B. Coning plume

❌ C. Fanning plume

❌ D. Looping plume

Q.148 Identify the Incorrect matching with respect to size, shape and grading of aggregates, on properties of concrete.

Ans

❌ A. Size of aggregate : affect strength of concrete

✅ B. Shape of aggregate : affect durability of concrete

❌ C. Shape of aggregate : affect workability of concrete

❌ D. Grading of aggregate : affect strength of concrete

Q.149 The specific weight of a liquid having a volume of 6 m³ and weight 42 kN is :

Ans

✗ A. $7 \; m^3/kN$

✔ B. $7 \; kN/m^3$

✗ C. $\dfrac{1}{7} m^3/kN$

✗ D. $\dfrac{1}{7} kN/m^3$

Q.150 The applicability of middle third rule used in the design of structures under combined direct and bending stresses is :

Ans ✗ A. Feasible to circular cross sections only

✗ B. Feasible to square and circular cross sections only

✔ C. Feasible to rectangular cross-sections only

✗ D. Feasible to all cross sections

Section : **General Knowledge and Awareness**

Q.1 Which of the following is a stringed musical instrument made of wood, steel and horsehair?

Ans ✔ A. Jantar

✗ B. Pava

✗ C. Zanj

✗ D. Manjira

Q.2 ईस्ट इंडिया कम्पनी को 1765 में _____ प्रान्त का दीवान नियुक्त किया गया था।

Ans ✗ A. मैसूर

✔ B. बंगाल

✗ C. हैदराबाद

✗ D. ग्वालियर

Q.3 The Indian National Army (INA) tried to invade India through Imphal and Kohima in the year
_____.

Ans ✗ A. 1943

  ✗ B. 1945

  ✗ C. 1946

  ✓ D. 1944

Question ID : **97675534782**
Status : **Answered**
Chosen Option : **A**

Q.4 The planet Mercury takes about _____ Earth days to complete one orbit around the Sun.

Ans ✗ A. 365

  ✗ B. 255

  ✓ C. 88

  ✗ D. 687

Question ID : **97675534776**
Status : **Not Answered**
Chosen Option : **--**

Q.5 _____ एक प्रकार की व्यवसायिक खेती है जिसमें एक ही फसल, जैसे चाय, उगाई जाती है। इस प्रकार की
खेती में अत्यधिक श्रम और पूंजी की आवश्यकता होती है।

Ans ✗ A. मिश्रित खेती

  ✗ B. सीढ़ीदार खेती

  ✓ C. बागानी खेती

  ✗ D. स्थानान्तरी कृषि

Question ID : **97675534778**
Status : **Answered**
Chosen Option : **C**

Q.6 _____ 'फीफा प्लेयर्स ऑफ़ दि 20 सेंचुरी' अवार्ड जीतने वाले दो संयुक्त विजेताओं में से एक थे।

Ans ✗ A. डेविड बेकहम

  ✗ B. ज़िनेदिन जिदान

  ✗ C. क्रिस्टियानो रोनाल्डो

  ✓ D. डिएगो माराडोना

Question ID : **97675534790**
Status : **Answered**
Chosen Option : **C**

Q.7 निम्नलिखित में से कौन सा नृत्य अपने संबंधित राज्य के साथ सही युग्म में है?

Ans ✔ A. भरतनाट्यम - तमिलनाडु

✘ B. सत्रीया - ओडिशा

✘ C. कुचिपुड़ी - असम

✘ D. कथक - आंध्रप्रदेश

Question ID : **97675534771**
Status : **Answered**
Chosen Option : **A**

Q.8 दिसम्बर 1946 में, भारतीय संविधान सभा के प्रथम अधिवेशन में कितने सदस्यों ने भाग लिया।

Ans ✔ A. 207

✘ B. 216

✘ C. 198

✘ D. 184

Question ID : **97675534787**
Status : **Answered**
Chosen Option : **B**

Q.9 निम्नलिखित में से कौन सी नदी ब्रह्मपुत्र नदी तंत्र का भाग नहीं है?

Ans ✔ A. कोसी

✘ B. लोहित

✘ C. दिबांग

✘ D. मेघना

Question ID : **97675534779**
Status : **Answered**
Chosen Option : **A**

Q.10 निम्नलिखित में से भारत के संविधान का कौन सा अनुच्छेद राज्य के राजपाल को क्षमादान, आदि और कुछ विशिष्ट स्थितियों में सजाएं निलंबित करने, माफ करने या लघुकरण करने की शक्ति प्रदान करता है?

Ans ✔ A. अनुच्छेद 161

✘ B. अनुच्छेद 102

✘ C. अनुच्छेद 123

✘ D. अनुच्छेद 112

Question ID : **97675534786**
Status : **Answered**
Chosen Option : **A**

Q.11 निम्नलिखित में से कौन सिन्धु घाटी सभ्यता के कस्बों/नगरों की विशेषता नहीं थी?

Ans ✔️ A. मिट्टी और पुआल से बने एक मंजिला मकान

❌ B. एक किलाबंद गढ़ जिसमें सार्वजनिक भवन स्थित ह

❌ C. एक दूसरे को समकोण पर काटने वाली चौड़ी सड़कें

❌ D. स्ट्रीट लाइटिंग के साथ पक्की सड़कें

Question ID : **97675534781**
Status : **Answered**
Chosen Option : **D**

Q.12 निम्नलिखित में से कौन सा कथन सत्य है?

Ans ❌ A. लोहे पर जंग लगना, भौतिक परिवर्तन का एक उदहारण है।

❌ B. किसी पदार्थ का जलना, भौतिक परिवर्तन का एक उदहारण है।

❌ C. रबर बैंड का खिंचना, रासायनिक परिवर्तन का एक उदहारण है।

✔️ D. मनुष्यों में पाचन क्रिया, रासायनिक परिवर्तन का एक उदहारण है।

Question ID : **97675534777**
Status : **Answered**
Chosen Option : **D**

Q.13 Which of the following is an institute devoted to the preservation and promotion of Indian literature?

Ans ❌ A. Sangeet Natak Akademi

✔️ B. Sahitya Akademi

❌ C. National School of Drama

❌ D. Lalit Kala Akademi

Question ID : **97675534783**
Status : **Answered**
Chosen Option : **D**

Q.14 Which of the following books is **NOT** authored by Anupam Kher?

Ans ❌ A. Your Best Day Is Today!

❌ B. Lessons Life Taught Me, Unknowingly: An Autobiography

❌ C. The Best Thing About You Is You!

✔️ D. And Then One Day: A Memoir

Question ID : **97675534785**
Status : **Answered**
Chosen Option : **B**

Q.15 The death anniversary of _____ is observed as 'Mahaparinirvan Din' in India.

Ans ✗ A. Mangal Pandey

✗ B. Vallabhbhai Patel

✗ C. Bhagat Singh

✔ D. Bhimrao Ambedkar

Question ID : **97675534784**
Status : **Answered**
Chosen Option : **D**

Q.16 निम्नलिखित में से पटियाला के निकट स्थित किला कौन सा है?

Ans ✔ A. बहादुरगढ़ का किला

✗ B. अजिंक्यतारा किला

✗ C. लोहागढ़ का किला

✗ D. विसापुर का किला

Question ID : **97675534773**
Status : **Answered**
Chosen Option : **A**

Q.17 जनवरी 2021 में, भारतीय रिजर्व बैंक ने पर्याप्त पूंजी न होने, और अर्जित करने की संभावनाएं न होने के कारण _____ का लाइसेंस निरस्त कर दिया।

Ans ✗ A. जनता सहकारी बैंक लिमिटेड

✗ B. अपना सहकारी बैंक लिमिटेड

✔ C. शिवम सहकारी बैंक लिमिटेड

✗ D. मलाड सहकारी बैंक लिमिटेड

Question ID : **97675534775**
Status : **Answered**
Chosen Option : **A**

Q.18 मोटेरा, गुजरात, में स्थित नवीनीकृत क्रिकेट स्टेडियम का फरवरी 2021 में, उद्घाटन होने तक, _____ विश्व का सबसे बड़ा क्रिकेट स्टेडियम था।

Ans ✗ A. ईडन गार्डन

✗ B. एडिलेड ओवल

✔ C. मेलबर्न क्रिकेट ग्राउंड

✗ D. ग्रीनफील्ड इंटरनेशनल स्टेडियम

Question ID : **97675534788**
Status : **Answered**
Chosen Option : **C**

Q.19 केंद्रीय बजट 2021 के अनुसार, _____ वर्ष से अधिक आयु के वरिष्ठ नागरिक जिनकी आय का स्रोत केवल पेंशन और ब्याज है, को आयकर रिटर्न्स दाखिल करने से छूट दी जाएगी।

Ans
- ✗ A. 60
- ✗ B. 80
- ✗ C. 65
- ✓ D. 75

Question ID : **97675534774**
Status : **Answered**
Chosen Option : **A**

Q.20 फरवरी 2021 में, पहलवान _____ ने XXIV आउट्स्टैंडिंग यूक्रेन ब्रेस्टलर एंड कोच मेमोरियल टूर्नामेंट के महिला 53-किलोग्राम वर्ग में स्वर्ण पदक जीता।

Ans
- ✗ A. गीता फोगाट
- ✗ B. रितु फोगाट
- ✓ C. विनेश फोगाट
- ✗ D. संगीता फोगाट

Question ID : **97675534789**
Status : **Answered**
Chosen Option : **C**

Section : **Reasoning**

Q.1 दिए गए कथन और निष्कर्षों को ध्यान से पढ़ें। यह मानते हुए कि कथन में दी गई जानकारी पूरी तरह से सत्य है, भले ही यह सामान्य रूप से ज्ञात तथ्यों से अलग हो, यह निर्णय लें कि दिए गए निष्कर्षों में से कौन सा/कौन से निष्कर्ष कथन का अनुसरण करता है/हैं।

कथन:
सभी कुर्सियां मेज हैं।
कुछ पलंग कुर्सियां हैं।
सभी पलंग फर्नीचर हैं।

निष्कर्ष:
I. सभी पलंग मेज हैं
II. कुछ मेज फर्नीचर हैं
IIII. कुछ कुर्सियां फर्नीचर हैं।
IV. कुछ कुर्सियां पलंग हैं।

Ans
- ✓ A. केवल निष्कर्ष II, III और IV अनुसरण करते हैं।
- ✗ B. केवल निष्कर्ष I और III अनुसरण करते हैं।
- ✗ C. केवल निष्कर्ष I, II या IV अनुसरण करते हैं।
- ✗ D. केवल निष्कर्ष I, II, III और IV अनुसरण करते हैं।

Question ID : **97675534799**
Status : **Answered**
Chosen Option : **D**

Q.2 एक पासे की दो अलग-अलग स्थितियाँ दर्शायी गई हैं। q अक्षर के विपरीत फलक पर कौन-सा अक्षर आएगा?

Ans   ✗ A. n

   ✗ B. p

   ✗ C. m

   ✓ D. r
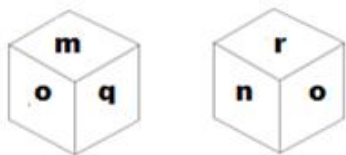
Q.3 उस विकल्प का चयन करें जो तीसरे अक्षर-समूह से उसी तरह से संबंधित है जैसे दूसरा अक्षर-समूह पहले अक्षर-समूह से संबंधित है।

SXK : PTF :: JTR : ?

Ans   ✓ A. GPM

   ✗ B. HQN

   ✗ C. FOL

   ✗ D. GQN

Q.4 The cube shown in the figure is painted yellow on all sides. If it is cut into 1000 small uniform cubes, then what is the number of cubes having at least two painted faces?
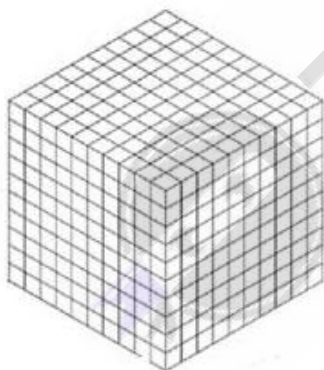
Ans   ✗ A. 40

   ✗ B. 120

   ✓ C. 104

   ✗ D. 86

Q.5 The image given here is the water image of which of the following option figures?

Ans

✗ A.

✔ B.

✗ C.

✗ D.
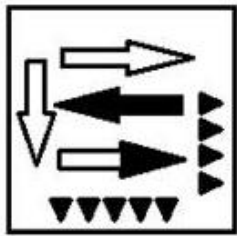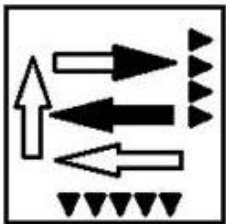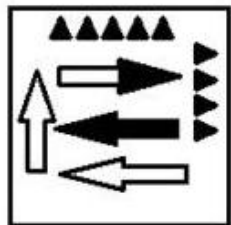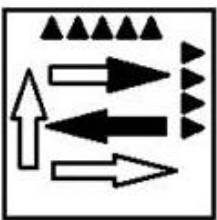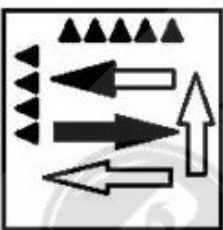
Q.6 उस विकल्प का चयन करें जो तीसरी संख्या से उसी प्रकार संबंधित है जिस प्रकार दूसरी संख्या पहली संख्या से संबंधित है।

36 : 220 :: 49 : ?

Ans ✖ A. 400

✖ B. 256

✖ C. 298

✔ D. 347

Q.7 दिलीप ने 5 संतरे, 3 अमरूद और 2 कीवी के लिए ₹145 चुकाए। यदि 1 संतरे, 1 अमरूद और 1 कीवी के मूल्य का अनुपात 2 : 3 : 5 है, तो 1 संतरे, 2 अमरूद और 1 कीवी के मूल्य का योग क्या है?

Ans ✖ A. 52

✔ B. 65

✖ C. 72

✖ D. 48

Q.8 निम्नलिखित चार अक्षर समूहों में से तीन अक्षर-समूह निश्चित तरीके से एक-दूसरे से संबंधित हैं और एक अलग है। विषम अक्षर-समूह का चयन करें।

Ans ✖ A. PLS – QNV

✖ B. GPQ – HRT

✖ C. LBC – MDF

✔ D. SHJ – TJH

Q.9 दिए गए वेन आरेख में त्रिकोण शहरी नागरिकों का प्रतिनिधित्व करता है, वृत्त मधुमेह वाले लोगों और आयत वरिष्ठ नागरिकों का प्रतिनिधित्व करता है। आरेख का अध्ययन करते हुए प्रश्न का उत्तर दें।
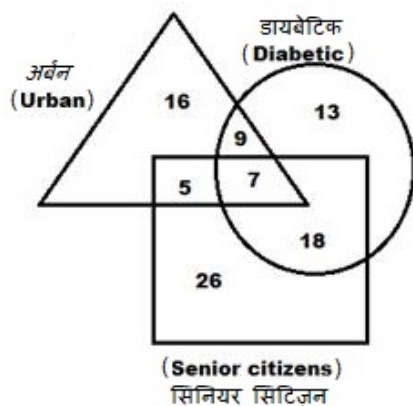
उन वरिष्ठ नागरिकों की संख्या कितनी है जिन्हें मधुमेह नहीं है?

Ans ✗ A. 7

✗ B. 5

✔ C. 31

✗ D. 26

Q.10 निम्नलिखित श्रृंखला में से कौन-सी संख्या प्रश्न चिह्न (?) के स्थान पर आएगी?

1701, 567, 189, 63, ?

Ans ✔ A. 21

✗ B. 29

✗ C. 19

✗ D. 13

Q.11 यदि कल्पित गणितीय प्रणाली में '@' का अर्थ गुणा करना, '$' का अर्थ भाग देना, '&' का अर्थ घटाना और '#' का अर्थ जोड़ना हो और शेष सभी मौजूदा गणितीय प्रणाली के समान हों, तो समीकरण 104 $ 8 # 5 & 7 @ 2 का मान क्या होगा?

Ans ✔ A. 4

✗ B. 8

✗ C. 10

✗ D. 6

Q.12 यदि डॉक्टर को शिक्षक कहा जाए, शिक्षक को डाकिया कहा जाए, डाकिये को प्रोफ़ेसर कहा जाए, प्रोफ़ेसर को चित्रकार कहा जाए और चित्रकार को इलेक्ट्रिशयन कहा जाए, तो चिट्ठी-पत्री और पार्सल कौन लाएगा?

Ans   ✘ A. शिक्षक

   ✘ B. डाकिया

   ✘ C. चित्रकार

   ✔ D. प्रोफ़ेसर

Q.13 उस विकल्प का चयन करें, जो तीसरे शब्द से उसी प्रकार से संबंधित है, जिस प्रकार से दूसरा शब्द पहले शब्द से संबंधित है।

ध्यानचंद : हॉकी:: पी. गोपीचंद: ?

Ans   ✘ A. क्रिकेट

   ✔ B. बैडमिंटन

   ✘ C. टेबल टेनिस

   ✘ D. लॉन टेनिस

Q.14 निम्नलिखित अक्षरों की श्रृंखला में नीचे दिए गए विकल्पों में से कौन-सा विकल्प प्रश्नवाचक चिह्न (?) के स्थान पर आएगा।

LOK, NMI, PKG, RIE, ?

Ans   ✘ A. UHC

   ✔ B. TGC

   ✘ C. SGD

   ✘ D. SHC

Q.15 How many triangles are there in the given figure?
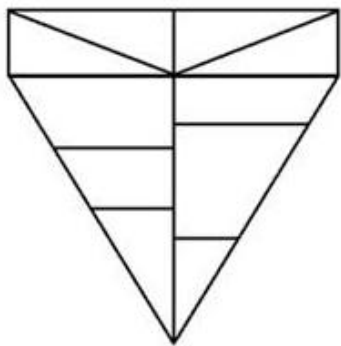
Ans   ✅ A. 12

     ❌ B. 11

     ❌ C. 14

     ❌ D. 13

Q.16 नीचे चार शब्द-युग्म दिए गए हैं, इनमें से तीन आपस में समान हैं और एक अलग है। विषम शब्द-युग्म का चयन करें।

Ans   ✅ A. पानी : सफेद

     ❌ B. आकाश : नीला

     ❌ C. घास : हरी

     ❌ D. कौवा : काला

Q.17 निम्नलिखित समीकरण को सही बनाने के लिए इसमें किन दो संख्याओं को एक-दूसरे से बदलना होगा?

$7 × 34 − 48 ÷ 24 + 3 = 246$

Ans   ✅ A. 3 और 24

     ❌ B. 7 और 3

     ❌ C. 48 और 24

     ❌ D. 7 और 24

Q.18 सोनम का मेहमानों से परिचय करवाते हुए विभा बोली, "ये मेरे ससुर के इकलौते बेटे की बेटी है।"
सोनम का विभा से क्या संबंध है?

Ans   ✗ A. चाची/ताई/बुआ/मौसी/फूफी/मामी

   ✗ B. माँ

   ✗ C. बहन

   ✓ D. पुत्री
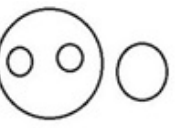
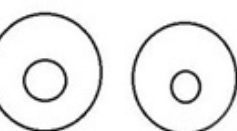**Q.19** निम्नलिखित वर्गों के बीच संबंध का सर्वोत्तम निरूपण करने वाले वेन आरेख का चयन करें।

सॉफ्टवेयर, जावा, माइक्रोसॉफ्ट ऑफिस, पेन ड्राइव

Ans

✓ A.

✗ B.

✗ C.

✗ D.

Q.20 निम्नलिखित शब्दों को अंग्रेज़ी के शब्दकोश के क्रमानुसार रखें और उस शब्द को चुनें जो सबसे पहले आएगा।

1. Imperturbable
2. Impermeable
3. Imperative
4. Impersonate
5. Imperceptible

Ans   ✓ A. 3, 5, 2, 4, 1

   ✗ B. 1, 2, 3, 4, 5

   ✗ C. 3, 5, 1, 4, 2

   ✗ D. 3, 5, 1, 2, 4

Section : **General Hindi**

Q.1 'चमक-दमक' में कौन सा समास है?

Ans ✗ A. तत्पुरुष

✗ B. द्विगु

✗ C. अव्ययी भाव

✓ D. द्वंद्व

Question ID : **97675534820**
Status : **Not Answered**
Chosen Option : **--**

Q.2 खिलाड़ी ने श्रम किया ताकि प्रतियोगिता में सफल हो। यह वाक्य किस प्रकार का है?

Ans ✗ A. सरल वाक्य

✗ B. संयुक्त वाक्य

✓ C. मिश्र वाक्य

✗ D. उपवाक्य

Question ID : **97675534819**
Status : **Answered**
Chosen Option : **B**

Q.3 'निश्चित कालखंड' इस अर्थ को प्रकट करने वाला शब्द कौनसा है ?'

Ans ✗ A. अवसर

✓ B. अवधि

✗ C. समय

✗ D. अवधी

Question ID : **97675534814**
Status : **Answered**
Chosen Option : **B**

Q.4 'कंजूस होना' इस अर्थ को प्रकट करनेवाला मुहावरा कौनसा है ?

Ans ✓ A. बनिया होना

✗ B. बबर होना

✗ C. बनिया बक्कल होना

✗ D. बबूल लगाकर आम चाहना

Question ID : **97675534816**
Status : **Answered**
Chosen Option : **A**

Q.5 'गरीब की किस्मत ही बुरी होती है' यह किस लोकोक्ति का अर्थ है ?

Ans ✓ A. गरीबों ने रोजे रखे तो दिन ही बड़े हो गए

✗ B. गरब का सिर नीचा

✗ C. गरीब की जोरू सब की भाभी

✗ D. गरीबी तेरे तीन नाम- झूठ, पाज, बेईमान

Question ID : **97675534817**
Status : **Answered**
Chosen Option : **A**

Q.6 'प्रियभाषी' का पर्यायवाची शब्द कौनसा है ?

Ans ✗ A. प्रियदश

✗ B. प्रियदर्शनी

✗ C. प्रियतमा

✓ D. प्रियवादी

Question ID : **97675534813**
Status : **Answered**
Chosen Option : **D**

Q.7 'मैं तुम्हें वहाँ भेजूंगा जहाँ कंस गया है' यह वाक्य किस प्रकार का है ?

Ans ✗ A. संयुक्त वाक्य

✓ B. मिश्र वाक्य

✗ C. संज्ञा उपवाक्य

✗ D. सरल वाक्य

Question ID : **97675534818**
Status : **Answered**
Chosen Option : **A**

Q.8 अव्ययीभाव समास का कौनसा उदाहरण है ?

Ans ✗ A. मुंहतोड़

✓ B. बेकम

✗ C. बेरहम

✗ D. मुंहमांगा

Question ID : **97675534815**
Status : **Not Answered**
Chosen Option : **--**

Q.9 अधोलिखित में कौनसा देशज शब्द है ?

Ans ✓ A. ठेस

✗ B. बाग

✗ C. चट

✗ D. प्रगति

Question ID : **97675534812**
Status : **Not Answered**
Chosen Option : **--**

Q.10 'यशोदा हमारे घर की लक्ष्मी है।' इस वाक्य में 'लक्ष्मी' शब्द का संज्ञा भेद कौनसा है ?

Ans ✗ A. समूहवाचक संज्ञा

✓ B. जातिवाचक संज्ञा

✗ C. भाववाचक संज्ञा

✗ D. व्यक्तिवाचक संज्ञा

Question ID : **97675534811**
Status : **Answered**
Chosen Option : **B**