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अंतरिक्ष विभाग DEPARTMENT OF SPACE

भारतीय अंतरिक्ष अनुसंधान संगठन  
INDIAN SPACE RESEARCH ORGANISATION



अंतरिक्ष उपयोग केंद्र SPACE APPLICATIONS CENTRE  
अहमदाबाद AHMEDABAD



Participant Id	
Participant Name	
Test Center Name	
Test Date	21/06/2023
Test Time	8:30 AM - 10:30 AM
Subject	Technical Assistant Civil

Section : Technical Assistant Civil

Q.1 The most widely used pump for lifting sewage is

- a) Centrifugal pump
- b) Reciprocating pump
- c) Pneumatic ejector
- d) Air pressure pump

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272131

Status : Answered

Chosen Option : A

Q.2 A simply supported beam of span 4.0 m has a cross section 200 mm (width) x 300 mm (depth). If the maximum permissible bending stress in the material of beam is 20 N/m<sup>2</sup>, what will be the maximum uniformly distributed load it can carry?

- a) 60 kN/m
- b) 300 kN/m
- c) 150 kN/m
- d) 30 kN/m

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272150  
Status : Answered  
Chosen Option : D

Q.3 For concreting of tunnel linings transportation of concrete is done by\_\_\_\_

- a) Pans
- b) Wheel borrows
- c) Containers
- d) Pumps

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272140  
Status : Answered  
Chosen Option : D

Q.4 For given water content, workability of concrete is good if aggregate used are \_\_\_\_\_

- a) Rounded aggregates
- b) Irregular aggregate
- c) Angular aggregates
- d) Flaky aggregates

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272142  
Status : Answered  
Chosen Option : A

Q.5 Raft foundation are generally preferred to when the area required for individual footing is more than \_\_\_\_\_

- a) 25% of total area
- b) 30% of total area
- c) 40% of total area
- d) 50% of total area

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272104  
Status : Answered  
Chosen Option : D

Q.6 Newton's law of viscosity is a relationship between

- a) Pressure, velocity and temperature
- b) Shear stress and rate of shear strain
- c) Shear stress and velocity
- d) Rate of shear strain and temperature

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272195  
Status : Answered  
Chosen Option : B

Q.7 One Pascal (Pa) is equal to \_\_\_\_\_

- a) 1 N/m<sup>2</sup>
- b) 1 kg/cm<sup>2</sup>
- c) 1 N/cm<sup>2</sup>
- d) 1 N/mm<sup>2</sup>

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272120  
Status : Answered  
Chosen Option : D

Q.8 To support a heavy structure in sandy soil, the foundation generally used is \_\_\_\_\_

- a) Combined footing
- b) Raft footing
- c) Pier footing
- d) Strap footing

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272105  
Status : Answered  
Chosen Option : B

Q.9 Moment of Inertia of a triangular section, about an axis passing through its centre of gravity and parallel to base is

- a)  $bh^3/12$
- b)  $bh^3/36$
- c)  $bh^3/32$
- d)  $bh^3/24$

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272187  
Status : Answered  
Chosen Option : B

Q.10 By boiling water hardness can be removed if it is due to the presence of

- a) Calcium sulphate
- b) Magnesium sulphate
- c) Calcium nitrate
- d) Calcium bicarbonate

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272159  
Status : Answered  
Chosen Option : D

Q.11 The portion of the brick left after removing the corner equal to half the width and half the length is called \_\_\_\_\_

- a) Closer
- b) Queen closer
- c) King closer
- d) Squint brick

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272101  
Status : Answered  
Chosen Option : C

Q.12 The moment diagram for a cantilever beam which is subjected to uniformly distributed load will be a

- a) Triangle
- b) Rectangle
- c) Parabola
- d) Cubic parabola

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272114  
Status : Answered  
Chosen Option : C

Q.13 The value of poisson's ratio always remain –

- a) Greater than one
- b) Less than one
- c) Equal to one
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272118  
Status : Answered  
Chosen Option : B



Q.14 If the capillary rise of water in a 1 mm diameter tube is 3 cm, the height of capillary rise of water in a 0.2 mm diameter tube in centimetre will be

- a) 1.5
- b) 7.5
- c) 15
- d) 75

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272185  
Status : Answered  
Chosen Option : C

Q.15 In a simply supported slab, alternate bars are curtailed at \_\_\_\_\_

- a) One fifth of the span
- b) One sixth of span
- c) One seventh of the span
- d) One eight of the span

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272177  
Status : Answered  
Chosen Option : C

Q.16 The unit of dynamic viscosity of fluid is

- a)  $\text{m}^2/\text{sec}$
- b)  $\text{N}\cdot\text{sec}/\text{m}^2$
- c)  $\text{pa}\cdot\text{sec}/\text{m}^2$
- d)  $\text{kg}\cdot\text{sec}^2/\text{m}^2$

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272194  
Status : Answered  
Chosen Option : C

Q.17 Wall constructed for the stability of a back filling portion of road on the downhill side, is known as

- a) Retaining wall
- b) Breast wall
- c) Parapet wall
- d) All the above

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272171  
Status : Answered  
Chosen Option : B

Q.18 Hooke's law states that stress and strain are \_\_\_\_\_

- a) Directly proportional
- b) Inversely proportional
- c) Curvilinearly related
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272115  
Status : Answered  
Chosen Option : A

Q.19 The specific speed of a turbine is speed of an imaginary turbine, which is identical with the given turbine, and \_\_\_\_\_

- a) delivers unit discharge under unit head
- b) delivers unit discharge under unit speed
- c) produces unit power (1 kw) under unit head (1 m)
- d) develops unit horse power under unit speed

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272153  
Status : Answered  
Chosen Option : B

Q.20 An activity of the project is graphically represented by \_\_\_\_\_ on the network diagram.

- a) A circle
- b) A straight line
- c) An arrow
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272192  
Status : Answered  
Chosen Option : C

Q.21 Elastic limit is the point \_\_\_\_\_

- a) up to which stress is proportional to strain
- b) At which elongation takes place without application of additional load
- c) Up to which, if the load is removed, original volume and shapes are regained
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272160  
Status : Answered  
Chosen Option : C

Q.22 A pitot tube is used to measures ---

- a) Pressure
- b) Difference in pressure
- c) Velocity of flow
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272123  
Status : Answered  
Chosen Option : C

Q.23 The ratio of shearing stress to shearing strain within elastic limit is known as

- a) Modulus of elasticity
- b) Shear modulus of elasticity
- c) Bulk modulus of elasticity
- d) Tangent modulus of elasticity

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272147  
Status : Answered  
Chosen Option : B

Q.24

Traps \_\_\_\_

- a) Are water seals preventing foul gases from sewers entering the house
- b) Are used to trap the rats entering sewers
- c) Dissolve the foul gases
- d) Create siphonic action to increase the quick disposal of sewerage

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272163  
Status : Answered  
Chosen Option : A

Q.25 According to I.S.: 456, the number of grades of concrete mixes, is

\_\_\_\_\_.

- a) 3
- b) 4
- c) 5
- d) 7

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272199  
Status : Answered  
Chosen Option : C

Q.26 The point of the contra flexure occurs in \_\_\_\_\_

- a) Cantilever beam
- b) Simply supported beam
- c) Over hanging beam only
- d) All the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272117  
Status : Answered  
Chosen Option : C

Q.27 The point of contra flexure is the point \_\_\_\_\_

- a) Where Bending Moment changes sign
- b) Where Bending Moment is maximum
- c) Where Bending Moment is minimum
- d) Where Shear Force is zero

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272174  
Status : Answered  
Chosen Option : A

Q.28 The ratio of young's modulus to modulus of rigidity for a material having Poisson's ratio 0.2 is \_\_\_\_\_

- a) 2.4
- b) 0.416
- c) 0.357
- d) 2.8

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272186  
Status : Answered  
Chosen Option : A

Q.29 Roughness index of road is expressed as

- a) Size of the stone on the pavement
- b) Number of patches on the pavement
- c) Cumulative deformation of surface per horizontal distance
- d) Type of road surface

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272172  
Status : Answered  
Chosen Option : C



Q.30 Sand which normally required a high-water cement ratio belong to

- a) Zone I
- b) Zone II
- c) Zone III
- d) Zone IV

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272143

Status : Answered

Chosen Option : D

Q.31 Which of the following levelling is carried out to determine the elevation difference between two points on the surface of earth?

- a) Reciprocal levelling
- b) Simple levelling
- c) Longitudinal levelling
- d) Differential levelling

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272190

Status : Answered

Chosen Option : D

Q.32 The first method invented for planning project was \_\_\_\_\_

- a) Bar chart
- b) Milestone chart
- c) Critical Path Method (CPM)
- d) Programme Evaluation and Review Technique (PERT)

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272173  
Status : Answered  
Chosen Option : A

Q.33 A type of cast-in-situ pile which has an enlarged base and corrugated item is

- a) Simple pile
- b) Franky pile
- c) Vibro-pile
- d) Raymond pile

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272108  
Status : Answered  
Chosen Option : B

Q.34 In case of two-way slab, the limiting deflection of the slab is \_\_\_\_

- a) Primarily a function of the long span
- b) Primarily a function of the short span
- c) Independent of long or short span
- d) Dependent on both long or short span

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272178  
Status : Answered  
Chosen Option : B

Q.35 The rate of accumulation of sludge per person per year is \_\_\_\_

- a) 10 litres
- b) 15 litres
- c) 20 Litres
- d) 30 litres

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272155  
Status : Answered  
Chosen Option : D

Q.36 M 10 grade of concrete approximates \_\_\_\_\_ mix.

- a) 1 : 3 : 6
- b) 1 : 1 : 2
- c) 1 : 2 : 4
- d) 1 : 1.5 : 3

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272188  
Status : Answered  
Chosen Option : A

Q.37 Magnetic declination at any place \_\_\_\_\_

- a) Remain constant
- b) Does not remain constant
- c) is subjected to fluctuations
- d) is charged abruptly

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272111  
Status : Answered  
Chosen Option : B

Q.38 In sewer, the gas generally formed is

- a) Hydrogen sulphide H<sub>2</sub>S
- b) Carbon dioxide (CO<sub>2</sub>)
- c) Methane CH<sub>4</sub>
- d) All the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272130  
Status : Answered  
Chosen Option : D

Q.39 Log angle machine is used to test the aggregate for

- a) Crushing strength
- b) Impact value
- c) Abrasion resistance
- d) Water absorption

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272137  
Status : Answered  
Chosen Option : C

Q.40 Size of A3 drawing sheet is \_\_\_\_\_

- a) 297 mm X 420 mm
- b) 210 mm X 297 mm
- c) 594 mm X 420 mm
- d) 1188 mm X 840 mm

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272149  
Status : Answered  
Chosen Option : A

Q.41 What is the minimum compressive strength of first-class bricks?

- a) 120 kg/cm<sup>2</sup>
- b) 115 kg/cm<sup>2</sup>
- c) 110 kg/cm<sup>2</sup>
- d) 105 kg/cm<sup>2</sup>

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272124  
Status : Answered  
Chosen Option : D

Q.42 To obtain cement dry powder, lime stones and shales or their slurry, is burnt in a rotary kiln at a temperature between

- a) 1100° and 1200°C
- b) 1200° and 1300°C
- c) 1300° and 1400°C
- d) 1400° and 1500°C

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272161  
Status : Answered  
Chosen Option : C

Q.43 Maximum permissible turbidity of potable water is \_\_\_\_\_ ppm

- a) 1
- b) 15
- c) 250
- d) 1000

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272158  
Status : Answered  
Chosen Option : B

Q.44 The magnitude of water hammer depends upon the

- a) Elastic properties of the pipe material
- b) Elastic properties of the liquid flowing through the pipe
- c) Speed at which the valve is closed
- d) All of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272193  
Status : Answered  
Chosen Option : D

Q.45 A beam extending beyond the support is called \_\_\_\_\_

- a) Simply supported beam
- b) Fixed beam
- c) Over hanging beam
- d) Cantilever beam

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272119  
Status : Answered  
Chosen Option : C



Q.46 Self-cleaning velocity is \_\_\_\_

- a) Velocity at dry weather flow
- b) Velocity of water at flushing
- c) Velocity at which no accumulation remains in the drain
- d) Velocity of water in a pressure filter

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272162  
Status : Answered  
Chosen Option : C

Q.47 When two plates are placed end to end and are joined by cover plates, the joint is known as

- a) Lap joint
- b) Butt joint
- c) Chain riveted lap joint
- d) Double cover but joint

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272148  
Status : Answered  
Chosen Option : B

Q.48 Higher workability of concrete is required if the structure is

- a) Made from cement and concrete
- b) Thick and reinforced
- c) Thin and heavily reinforced
- d) Thick and heavily reinforced

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272138  
Status : Answered  
Chosen Option : C

Q.49 The shear force on a simply supported beam is proportional to \_\_\_\_\_

- a) Displacement of the neutral axis
- b) Sum of the forces
- c) Sum of the transvers forces
- d) Algebra sum of the transverse forces

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272113  
Status : Answered  
Chosen Option : D

Q.50 Which is the grade of ordinary Portland cement conforming IS 12269?

- a) 33 grade
- b) 43 grade
- c) 53 grade
- d) 63 grade

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272133  
Status : Answered  
Chosen Option : B

Q.51 The stress at which extension of a material takes place more quickly as compared to the increase in load, is called as

- a) Elastic point
- b) Plastic point
- c) Breaking point
- d) Yielding point

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272198  
Status : Answered  
Chosen Option : D

Q.52 \_\_\_\_\_ is provided at the bottom of suction pipe for holding the water in the suction pipe

- a) Flush valve
- b) Foot Valve
- c) Float Valve
- d) Safety Valve

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272135  
Status : Answered  
Chosen Option : B

Q.53 The specific gravity of sand is approximately

- a) 1.6
- b) 2.0
- c) 2.2
- d) 2.6

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272165  
Status : Answered  
Chosen Option : C

Q.54 PERT require

- a) Single time estimate
- b) Double time estimate
- c) Triple time estimate
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272180  
Status : Answered  
Chosen Option : C

Q.55 The mortar in which both cement and lime are used as binding material is called\_\_\_\_\_

- a) Cement mortar
- b) Lime mortar
- c) Fire-resistance mortar
- d) Gauged mortar

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272107  
Status : Answered  
Chosen Option : D

Q.56 For the pre-cast reinforced concrete piles, the quality of concrete recommended is

- a) M 100 to M 150
- b) M 150 to M 200
- c) M 200 to M 250
- d) M 250 to M 300

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272109  
Status : Answered  
Chosen Option : C

Q.57 The shape of the bending moment diagram over the length of a beam, carrying a uniformly increasing load, is always \_\_\_\_\_

- a) Linear
- b) Parabolic
- c) Cubical
- d) Circular

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272126  
Status : Answered  
Chosen Option : C

Q.58 The type of surveying in which the curvature of the earth is taken into account is called\_\_\_\_\_

- a) Geodetic surveying
- b) Plane surveying
- c) Preliminary surveying
- d) Topographical surveying

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272183  
Status : Answered  
Chosen Option : A

Q.59 Internal friction between the ingredient of concrete is decreased by using

- a) Less water
- b) Fine aggregates
- c) Rich mix
- d) More water and coarse aggregates

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272136  
Status : Answered  
Chosen Option : D

Q.60 The side reinforcement if required in a T-beam will be

- a) 0.1% of the web area
- b) 0.15% of the web area
- c) 0.25% of the web area
- d) 0.50% of the web area

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272152

Status : Answered

Chosen Option : A

Q.61 By over-reinforcing the section in tension, the moment of resistance of a beam can be increased by not more than

- a) 10%
- b) 15%
- c) 20%
- d) 25%

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272144

Status : Answered

Chosen Option : C



Q.62 Spacing of stirrups in a rectangular beam is \_\_\_\_\_

- a) Kept constant throughout the length
- b) Decreased toward the centre of beam
- c) Increased at the ends
- d) Increased at the centre of the beam

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272145  
Status : Answered  
Chosen Option : D

Q.63 In a theodolite the line of collimation is \_\_\_\_\_

- a) Parallel to axis of plate levels
- b) Parallel to the vertical axis
- c) Perpendicular to the trunnion axis
- d) Parallel to the horizontal axis

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272179  
Status : Answered  
Chosen Option : C

Q.64 The argillaceous rocks have their principal constituent as

- a) lime
- b) clay
- c) sand
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272200  
Status : Answered  
Chosen Option : B

Q.65 The strain energy stored in a spring when subjected to maximum load without being permanently distorted is called

- a) Stiffness
- b) Proof resilience
- c) Proof stress
- d) Proof load

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272175  
Status : Answered  
Chosen Option : D

Q.66 The capability of the entire soil of full width and depth to transmit water is known as

- a) Porosity
- b) Permeability
- c) Transmissibility
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272157  
Status : Answered  
Chosen Option : C

Q.67 Flow in pipe is turbulent if Reynold number is

- a) Less than 2100
- b) More than 3000
- c) Between 2100 and 3000
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272122  
Status : Answered  
Chosen Option : B

Q.68 With usual notation's, the expression  $V^2/gR$  represent \_\_\_\_\_

- a) Centrifugal force
- b) Centrifugal ratio
- c) Super elevation
- d) Radial acceleration

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272112  
Status : Answered  
Chosen Option : C

Q.69 A stone wall provided to protect the shapes of cutting in natural ground from the action of weather; is known as

- a) Retaining wall
- b) Breast wall
- c) Parapet wall
- d) Buttress

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272110  
Status : Answered  
Chosen Option : B

Q.70 D.O. concentration falls down to zero in any natural drainage, it indicates-

- a) Zone of degradation
- b) Zone of Active decomposition
- c) Zone of recovery
- d) Zone of cleaner water

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272134  
Status : Answered  
Chosen Option : B

Q.71 An event is indicated on the network by

- a) A straight line
- b) A number enclosed in a circle or a square
- c) A straight line with circles at the ends
- d) A dotted line

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272170  
Status : Answered  
Chosen Option : B

Q.72 Cohesive soils, on wetting \_\_\_\_

- a) Loose shear strength
- b) Gain shear strength
- c) Loose elasticity
- d) Decrease their shear strength

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272166  
Status : Answered  
Chosen Option : A

Q.73 A drop manhole is provided if

- a) Sewer drops from a height
- b) A branch sewer joins the main sewer at higher level
- c) A lamp is inserted to check obstruction
- d) None of the above

- Ans
- A. a
  - B. b
  - C. c
  - D. d

Question ID : 2141272129  
Status : Answered  
Chosen Option : B

Q.74 Distribution reinforcement in a simply supported slab is provided to distribute

- a) Load
- b) Temperature stress
- c) Shrinkage stress
- d) All the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272146  
Status : Answered  
Chosen Option : D

Q.75 If the PH value of sewage is 7, then \_\_\_\_\_

- a) It is acidic
- b) It is alkaline
- c) It is neutral
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272132  
Status : Answered  
Chosen Option : C

Q.76 For compacting plain concrete road surface of thickness less than 20 cm,  
we use \_\_\_\_\_

- a) Internal vibrator
- b) Screed vibrator
- c) Form vibrator
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272141  
Status : Answered  
Chosen Option : B

Q.77 The angle of inclination of the plane at which the body begins to move  
down the plane, is called \_\_\_\_\_

- a) Angle of friction
- b) Angle of projection
- c) Angle of repose
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272197  
Status : Answered  
Chosen Option : C



Q.78 In a pipe line, a surge tank is provided

- a) To relieve the pressure due to water hammer
- b) To provide additional water head
- c) To overflow the pipe line when valve is suddenly closed
- d) To remove the frictional loss in pipe

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272125  
Status : Answered  
Chosen Option : A

Q.79 In A-B-C analysis, which class of items are generally large in number?

- a) A
- b) B
- c) C
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272191  
Status : Answered  
Chosen Option : A

Q.80 The maximum diameter of the reinforcement bars in R.C.C. slabs is \_\_\_\_\_.

- a) 20 mm
- b) 16 mm
- c) Span/100
- d) Thickness of slab/8

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272189  
Status : Answered  
Chosen Option : D

Q.81 When the Mach number is more than 6, the flow is called

- a) Subsonic flow
- b) Supersonic flow
- c) Sonic flow
- d) Hypersonic flow

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272196  
Status : Answered  
Chosen Option : D

Q.82 The ratio of the volume of voids to the volume of soil solids in a given soil mass is known as \_\_\_\_\_

- a) Porosity
- b) Specific gravity
- c) Void ratio
- d) Water content

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272164  
Status : Answered  
Chosen Option : C

Q.83 The commonly used lime in white washing is \_\_\_\_\_

- a) Quick lime
- b) Fat lime
- c) Hydraulic lime
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272102  
Status : Answered  
Chosen Option : B

Q.84 The presence of free ammonia in sewage is detected by

- a) Boiling
- b) Adding potassium permanganate
- c) Adding sulphuric acid
- d) Phenol-di-sulphuric acid

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272154  
Status : Answered  
Chosen Option : D

Q.85 The process of proper and accurate measurement of concrete ingredient for uniformity of proportion is known as \_\_\_\_\_

- a) Grading
- b) Curing
- c) Mixing
- d) Batching

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272139  
Status : Answered  
Chosen Option : D

Q.86 The bearing capacity of a water-logged soil, may be improved by \_\_\_\_\_

- a) Grouting
- b) Chemical action
- c) Drainage
- d) Compaction

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272106  
Status : Answered  
Chosen Option : C

Q.87 Under-reamed piles are generally

- a) Driven piles
- b) Bored piles
- c) Precast piles
- d) All the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272168  
Status : Answered  
Chosen Option : B

Q.88 What is the ratio of area of flow and wetted perimeter is termed as

- a) hydraulic radius
- b) hydraulic diameter
- c) hydraulic circular diameter
- d) hydraulic velocity

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272181  
Status : Answered  
Chosen Option : A

Q.89 Plaster of Paris can be obtained from the calcinations of \_\_\_\_\_

- a) Lime stone
- b) Gypsum
- c) Dolomite
- d) Dolomite

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272176  
Status : Answered  
Chosen Option : B

Q.90 Which one of the following options is termed as water hammer in a pipe flow?

- a) The sudden rise of pressure in a long pipe due to sudden closure of valve
- b) The fall of pressure in a pipe flow due to constant closure of valve
- c) The rise of negative pressure
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272182  
Status : Answered  
Chosen Option : A

Q.91 Strain energy of any member may be defined as

- a) Work done on it to deform it
- b) Work done on it to resist elongation
- c) Work done on it to resist shortening
- d) All the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272116  
Status : Answered  
Chosen Option : D

Q.92 Centre of buoyancy is

- a) Centroid of the floating body
- b) Centroid of the fluid displaced
- c) Centre of pressure of displaced liquid
- d) None of the above

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272127  
Status : Answered  
Chosen Option : B

Q.93 45 litres water per person per day is provided in

- a) Office building
- b) Hotels
- c) Hostels
- d) Nursing home

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272156  
Status : Answered  
Chosen Option : A



Q.94 In gravity canals, F.S.L. is

- a) Always at the ground level
- b) Always at the below ground level
- c) Generally, 4 to 5 meters above the G.L.
- d) Only a few cm above the G.L.

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272169  
Status : Answered  
Chosen Option : D

Q.95 An odd shaped body weighing 7.5 kg and occupying 0.01 cubic metre volume will be completely submerged in a fluid having specific gravity of \_\_\_\_\_

- a) 1
- b) 1.2
- c) 0.8
- d) 0.75

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272184  
Status : Answered  
Chosen Option : D

Q.96 An ideal flow of liquid must fulfil the following –

- a) Continuity equations
- b) Newton's law of viscosity
- c) Newton's second law of motion
- d) Velocity of boundary must be zero

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272121  
Status : Answered  
Chosen Option : B

Q.97 A body of soil is said to be plastic equilibrium if it \_\_\_\_\_

- a) Is stressed to maximum
- b) Is on the verge of failure
- c) Is in plastic stage
- d) Start flowing

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272167  
Status : Answered  
Chosen Option : B

Q.98 The longitudinal shearing stress acting on the surface between the steel and concrete are called \_\_\_\_\_

- a) Bond stress
- b) Tensile stress
- c) Compressive stress
- d) None of these

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272151  
Status : Answered  
Chosen Option : A

Q.99 Fire hose nozzle is generally of \_\_\_\_\_

- a) Divergent shape
- b) Convergent shape
- c) Convergent divergent shape
- d) Cylindrical shape

Ans  A. a  
 B. b  
 C. c  
 D. d

Question ID : 2141272128  
Status : Answered  
Chosen Option : C

Q.100 Good quality cement contains higher percentage of \_\_\_\_\_.

- a) Tricalcium silicate
- b) Di-calcium silicate
- c) Tri-calcium aluminate
- d) All the above

Ans  A. a

B. b

C. c

D. d

Question ID : 2141272103

Status : Answered

Chosen Option : A



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