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सतीश धवन अंतरिक्ष केंद्र शार, श्रीहरिकोटा

भारतीय अंतरिक्ष अनुसंधान संगठन
Indian Space Research Organisation



SATISH DHAWAN SPACE CENTRE SHAR
Sriharikota

Participant ID	
Participant Name	
Test Center Name	
Test Date	04/06/2022
Test Time	12:30 PM - 2:30 PM
Subject	Civil Engineering

Section : Civil Engineering

- Q.1** Type of torsion produced in Reinforced Concrete members subjected to loads is classified into
- A. 4 types
 - B. 3 types
 - C. 2 types
 - D. 1 type

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936873
Status : Not Answered
Chosen Option : --

- Q.2** Which of the following type of foundation can be provided for a buildings when the soil at shallow depth is having very poor bearing capacity?
- A. Isolated column footing
 - B. Well foundation
 - C. Pile foundation
 - D. Masonry footing

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936889
Status : Answered
Chosen Option : C

Q.3 Carbon content in TMT bars Fe 500 grade shall not exceed

- A. 0.4%
- B. 0.3%
- C. 0.5%
- D. 0.2%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936917
 Status : Answered
 Chosen Option : D

Q.4 10,000 की जनसंख्या को 100 लीटर प्रतिदिन खपत पर 2 ppm की दर से की जाने वाली क्लोरिनीकृत जल आपूर्ति में कितनी मात्रा में 20% क्लोरीन उपलब्धता के साथ ब्लीचिंग पाउडर लगेगा?

- A. 0.2 Kg
- B. 5 Kg
- C. 10 Kg
- D. 20Kg

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936896
 Status : Not Answered
 Chosen Option : --

Q.5 The point of generation of earthquake below earth is called

- A. Epicentre
- B. Hypocentre
- C. Focal depth
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936876
 Status : Answered
 Chosen Option : A

Q.6 The maximum allowable tolerance for formwork in construction of footings as per IS 456 is

- A. 60mm
- B. 50mm
- C. 40mm
- D. 25mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936865
 Status : Answered
 Chosen Option : A

Q.7 In case of Limit state method, the concrete is subjected to

- A. Some times higher but generally lower stress level
- B. A higher stress level
- C. A lower stress level
- D. Same stress level

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936868
 Status : Answered
 Chosen Option : D

Q.8 Superplasticizers made with polycarboxylate ethers aims at reduction of water in concrete

- A. 15 to 22%
- B. 10 to 15%
- C. 35 to 40%
- D. 45 to 50%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936925
 Status : Answered
 Chosen Option : B

- Q.9** Size of medium sand is
- A. 0.005 to 0.025mm
 - B. 0.075 to 0.425mm
 - C. 0.75 to 2mm
 - D. 2.00 to 3.00mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936937
 Status : Answered
 Chosen Option : D

- Q.10** The unevenness index for a good pavement surface of high speed is
- A. 1500mm/Km
 - B. 2500mm/Km
 - C. 3500mm/Km
 - D. 4500mm/Km

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936885
 Status : Answered
 Chosen Option : A

- Q.11** The property of material enables to absorb energy without fracture is called
- A. Hardness
 - B. Toughness
 - C. Fatigue
 - D. Ductility

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936902
 Status : Answered
 Chosen Option : B

Q.12 As per IS456-2000, the maximum cement content in RCC shall be

- A. 400 Kg/Cum
- B. 450 Kg/Cum
- C. 500 Kg/cum
- D. 600 Kg/cum

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936940
 Status : Answered
 Chosen Option : D

Q.13 The ratios of pressures between two points A and B at depth of 0.5m and 2m below a constant level of water in a tanks is

- A. 1: $\sqrt{2}$
- B. 1 :2
- C. 1:4
- D. 1:16

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936905
 Status : Answered
 Chosen Option : C

Q.14 Effective length of a columns length L with both ends effectively held in position but not restrained against rotation is

- A. 0.5 L
- B. L
- C. 2L
- D. 1.5L

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936935
 Status : Answered
 Chosen Option : B

Q.15 Number of test results of concrete required to calculate standard deviation

- A. 5
- B. 10
- C. 20
- D. 30

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936862
Status : Answered
Chosen Option : A

Q.16 The compaction process can be accomplished by ----- process.

- A. Rolling
- B. Tampering
- C. Vibration
- D. All of the mentioned

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936888
Status : Answered
Chosen Option : D

Q.17 Minimum centre to centre spacing of friction piles of diameter "D" as per BIS code is

- A. 2D
- B. 2.5D
- C. 3D
- D. 4D

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936881
Status : Answered
Chosen Option : D

Q.18 Width of carriageway for a single lane is to be

- A. 7.5 m
- B. 5.5 m
- C. 4.5 m
- D. 3.75 m

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936883
 Status : Answered
 Chosen Option : B

Q.19 In an internal focusing type of telescope the lens provided is

- A. Concave
- B. Convex
- C. Plano convex
- D. Plano concave

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936929
 Status : Not Answered
 Chosen Option : --

Q.20 Which one of the concrete is most suitable in extreme cold climate?

- A. Ready mix concrete
- B. Vacuum concrete
- C. Ferrocement concrete
- D. Air entrained concrete

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936879
 Status : Answered
 Chosen Option : D

Q.21 A commonly used hand pump is

- A. Centrifugal pump
- B. Rotary pump
- C. Reciprocating pump
- D. Axial flow pump

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936936
Status : Answered
Chosen Option : D

Q.22 Basic wind speed considered for design of structures in Chennai as per IS code

- A. 33 m/sec
- B. 44m/sec
- C. 50m/sec
- D. 65m/sec

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936875
Status : Not Answered
Chosen Option : --

Q.23 Pitot static tube measure

- A. Stagnation pressure
- B. Static pressure
- C. Dynamic pressure
- D. Hydraulic pressure

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936932
Status : Answered
Chosen Option : A

Q.24 Nominal mix may be used for grades of concrete

- A. M20 or lower
- B. M15 or lower
- C. M25 or lower
- D. M10 or lower

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936864
 Status : Answered
 Chosen Option : A

Q.25 The weight of a vehicle effects

- A. Width of lanes
- B. Passing sight distance
- C. Pavement thickness
- D. Extra widening

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936884
 Status : Answered
 Chosen Option : C

Q.26 The structure of Illite is similar to that of -----crystal.

- A. Kaolinite
- B. Dickite
- C. Montmorillonite
- D. Attapulgite

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936892
 Status : Not Answered
 Chosen Option : --

Q.27 Load factor is defined as

- A. Ultimate load/Yield load
- B. Yield load/ultimate load
- C. Ultimate load/working load
- D. Yield load/working load

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936872
 Status : Answered
 Chosen Option : C

Q.28 In a rectangular beam section, the ratio of maximum shear stress to that of average shear stress

- A. $\frac{3}{4}$
- B. $\frac{4}{3}$
- C. $\frac{2}{3}$
- D. $\frac{3}{2}$

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936934
 Status : Answered
 Chosen Option : D

Q.29 According to IS standards, the grading of Fine aggregate is divided into

- A. 2 zones
- B. 4 zones
- C. 3 zones
- D. 6 zones

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936913
 Status : Answered
 Chosen Option : C

Q.30 Ferrocement is a composite material

- A. Cement mortar with Iron content
- B. Cement mortar with Steel fibres
- C. Cement mortar with wire mesh
- D. Cement mortar with Glass fibres

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936926
 Status : Answered
 Chosen Option : A

Q.31 Chlorine in water is determined by

- A. EDTA method
- B. Winkler's method
- C. Orthotolidine test
- D. Mohr Method

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936894
 Status : Answered
 Chosen Option : D

Q.32 What is the maximum percentage of steel for columns as per IS 456?

- A. 3% of cross-sectional area
- B. 4% of cross-sectional area
- C. 5% of cross-sectional area
- D. 6% of cross-sectional area

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936870
 Status : Answered
 Chosen Option : B

Q.33 A cantilever beam is subjected to UDL throughout the span. Then the shape of the shear force diagram is

- A. Parabola
- B. Hyperbola
- C. Rectangle
- D. Triangle

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936866
 Status : Answered
 Chosen Option : D

Q.34 The potential energy stored up in a deformed body is known as

- A. Strain energy
- B. Potential energy
- C. Resilience
- D. Deformation.

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936901
 Status : Answered
 Chosen Option : C

Q.35 A canal which is aligned at right angles to contour is called

- A. Contour canal
- B. Watershed canal
- C. Branch canal
- D. Side slope canal

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936931
 Status : Answered
 Chosen Option : C

Q.36 A building has 75 points in GRIHA rating, it is treated as

- A. 2 star
- B. 4 star
- C. 3 star
- D. 5 star

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936924
 Status : Not Answered
 Chosen Option : --

Q.37 The minimum diameter of longitudinal reinforcement bar in a column as per IS 456 is

- A. 10mm
- B. 12mm
- C. 16mm
- D. 20mm

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936863
 Status : Answered
 Chosen Option : B

Q.38 संरचना के कार्यकारी उपयोग पर आधारित डिजायन भूकंप बल की गणना के लिए प्रयुक्त घटक कहलाता है

- A. अंचल घटक
- B. महत्व घटक
- C. ह्रास घटक
- D. उपरोक्त में से कोई नहीं

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936869
 Status : Not Answered
 Chosen Option : --

Q.39 For coastal environment best suited cement is

- A. Rapid hardening cement
- B. Ordinary Portland cement
- C. High alumina cement
- D. Blast furnace slag cement

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936912
 Status : Answered
 Chosen Option : A

Q.40 Product of hydration of cement with water

- A. Metakaoline
- B. Billimorite
- C. Tobermorite
- D. Calcium Gel

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936920
 Status : Answered
 Chosen Option : B

Q.41 The piezometric head is also called -----

- A. Position head
- B. Elevation head
- C. Velocity head
- D. Pressure head

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936904
 Status : Answered
 Chosen Option : B

Q.42 The viscosity of fluid varies with

- A. Pressure
- B. Density
- C. Temperature
- D. Temperature and Pressure

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936928
 Status : Answered
 Chosen Option : D

Q.43 Bitumen of grade 80/100. The first and second numbers refers to

- A. Softening point and penetration
- B. Penetration and flash point
- C. Penetration and softening point
- D. Flash point and softening point

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936914
 Status : Answered
 Chosen Option : C

Q.44 Basic wind speed considered for design of structures in Hyderabad as per IS code

- A. 33m/sec
- B. 44m/sec
- C. 55m/sec
- D. 60m/sec

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936880
 Status : Answered
 Chosen Option : D

Q.45 The material in which large deformation is possible before rupture is called

- A. Plastic
- B. Brittle
- C. Ductile
- D. Elastic

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936903
 Status : Answered
 Chosen Option : B

Q.46 Fire resistant brick – Major component of material is

- A. Fe_2O_3
- B. Al_2O_3
- C. Al_3O_4
- D. Fe_3O_4

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936921
 Status : Answered
 Chosen Option : A

Q.47 Size of nail knot in timber

- A. 0 to 6mm dia
- B. 6 to 10mm dia
- C. 10 to 20mm dia
- D. 20 to 40mm dia

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936916
 Status : Answered
 Chosen Option : A

Q.48 The permissible stresses for main structural steel members under dynamic loads should be increased by

- A. 20%
- B. 25%
- C. 30%
- D. 33.33%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936909
 Status : Answered
 Chosen Option : B

Q.49 The uniformity co-efficient of sand used in Filter bed of slow sand filter is

- A. 0.5 to 1.00
- B. 1.0 to 2.0
- C. 2.0 to 3.0
- D. 3.0 to 5.0

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936899
 Status : Answered
 Chosen Option : A

Q.50 The distance between the center's of adjacent rivets in the same row is called

- A. Lap
- B. Pitch
- C. Gauge
- D. Staggered pitch

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936908
 Status : Answered
 Chosen Option : B

Q.51 Synthetic rubber used for elastomeric bearings should have respectively hardness and ultimate tensile elongation of

- A. 100 and 500%
- B. 55 and 400%
- C. 175 and 300%
- D. 200 and 350%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936938
Status : Not Answered
Chosen Option : --

Q.52 A liquid product in which a substantial amount of bitumen is suspended, in a finely divided condition is called

- A. Bitumen solution
- B. Bitumen paint
- C. Bitumen emulsion
- D. All of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936886
Status : Answered
Chosen Option : D

Q.53 Xypex polymer is used in concrete for

- A. Reducing water content
- B. Increasing setting time of cement
- C. Water proofing
- D. Increased strength

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936878
Status : Answered
Chosen Option : A

Q.54 Maximum spacing of shear reinforcement shall be not more than [assume depth of beam as d]

- A. $0.5 d$
- B. $0.75 d$
- C. D
- D. None of above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936867
 Status : Answered
 Chosen Option : B

Q.55 In a dome structure, the slab will be in

- A. Tension
- B. Compression
- C. Shear
- D. Axial

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936871
 Status : Answered
 Chosen Option : A

Q.56 Water absorption of country bricks shall be not more than

- A. 5%
- B. 10%
- C. 20%
- D. 30%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936915
 Status : Answered
 Chosen Option : C

Q.57 What is the minimum percentage of steel for water tanks as per IS 3370?

- A. 0.25 % of cross-sectional area
- B. 0.30% of cross-sectional area
- C. 0.4% of cross-sectional area
- D. 0.5% of cross-sectional area

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936877
 Status : Answered
 Chosen Option : D

Q.58 Blue baby disease in children is caused by the presence of

- A. Chlorides
- B. Fluorides
- C. Sulphates
- D. Nitrates

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936893
 Status : Answered
 Chosen Option : B

Q.59 The speed of pressure wave through pipe depends on

- A. Length of pipe
- B. Diameter of pipe
- C. Bulk modulus of fluid
- D. Original head

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936933
 Status : Answered
 Chosen Option : D

Q.60 The graphical method for the determination of earth pressure is

- A. Rebhann's method
- B. Taylors method
- C. Mohr's diagram method
- D. New mark influence chart method

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936941
 Status : Not Answered
 Chosen Option : --

Q.61 Approximate proportion of dry cement mortar required for brick work is

- A. 50 %
- B. 30%
- C. 40%
- D. 60%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936918
 Status : Answered
 Chosen Option : D

Q.62 The process of turning telescope about vertical axis in horizontal plane is called

- A. Transiting
- B. Reversing
- C. Plunging
- D. Swinging

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936927
 Status : Answered
 Chosen Option : D

Q.63 According to IS code, the weight of the timber is to be reckoned at a moisture content of

- A. 0
- B. 4%
- C. 8%
- D. 12%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936919
 Status : Answered
 Chosen Option : D

Q.64 The ground water table may be lowered by which of the following methods?

- A. Vaccum method
- B. Well point system
- C. Electro osmosis method
- D. All of the mentioned

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936906
 Status : Answered
 Chosen Option : D

Q.65 Aluminium powder is used as an admixture in the production of

- A. High strength concrete
- B. High density concrete
- C. Light weight concrete
- D. Prestressed precast concrete

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936922
 Status : Answered
 Chosen Option : C

Q.66 Parallax bar is used to measure

- A. Parallax
- B. Parallax difference
- C. Difference in elevation
- D. Relief displacement

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936930
 Status : Answered
 Chosen Option : B

Q.67 Aeration in water treatment removes

- A. Chlorides
- B. Nitrates
- C. Iron and Manganese
- D. Nickel and Cadmium

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936898
 Status : Answered
 Chosen Option : B

Q.68 As per IS 456-2000, minimum grade of concrete for RCC work shall be

- A. M15
- B. M20
- C. M25
- D. M30

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936911
 Status : Answered
 Chosen Option : B

Q.69 If the hydraulic gradient is unity, then what is the ratio of flow across unit area of soil called?

- A. Co-efficient of discharge
- B. Co-efficient of viscosity
- C. Co-efficient of seepage
- D. Co-efficient of permeability

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936890
 Status : Answered
 Chosen Option : D

Q.70 Contact pressure for flexible footing on any type of soil is

- A. Uniform
- B. Varies with maximum at centre
- C. Varies with maximum edges
- D. No specific trend of variation

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936891
 Status : Answered
 Chosen Option : C

Q.71 Piezometric head is the sum of

- A. Velocity head and pressure head
- B. Datum head and velocity head
- C. Pressure head and datum head
- D. Velocity head, pressure head and datum head

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936939
 Status : Answered
 Chosen Option : C

Q.72 Prestressing losses in post-tensioned and pre-tensioned beams are respectively the following:

- A. 15% and 20%
- B. 25% and 30%
- C. 35% and 40%
- D. 5% and 10%

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936910
 Status : Not Answered
 Chosen Option : --

Q.73 The unit of strain are

- A. N
- B. N/Sq.mm
- C. N.mm
- D. None

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936900
 Status : Answered
 Chosen Option : D

Q.74 Self compacting concrete construction first started in

- A. Australia
- B. America
- C. Japan
- D. France

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936923
 Status : Answered
 Chosen Option : A

Q.75 What is minimum cement content permitted for RCC structures constructed in “Extreme” exposure conditions as per IS 456?

- A. 320 Kg/cum
- B. 300 Kg/cum
- C. 350 Kg/cum
- D. 360 Kg/cum

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936874
 Status : Answered
 Chosen Option : D

Q.76 The assumption of boussinesq equation is that the solid is -----

- A. Elastic
- B. Semi-elastic
- C. Plastic
- D. Semi-plastic

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936887
 Status : Not Answered
 Chosen Option : --

Q.77 Altitude of a point is the vertical distance above

- A. Reference datum
- B. Ground level
- C. Mean sea level
- D. None of the above

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936907
 Status : Answered
 Chosen Option : C

Q.78 Rate of filtration of a Rapid sand filter is

- A. 300 litres per Sq.m per minute
- B. 400 litres per Sq.m per minute
- C. 100 litres per Sq.m per hour
- D. 100 litres per Sq.m per minute

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936897
Status : Answered
Chosen Option : B

Q.79 Turbidity of water shall not exceed

- A. 2 NTU
- B. 5 NTU
- C. 10 NTU
- D. 15 NTU

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936895
Status : Answered
Chosen Option : B

Q.80 The type of transition curve generally provided on hilly tracks is

- A. Spiral
- B. Circular
- C. Laminiscate
- D. Cubic parabola

Ans A. A
 B. B
 C. C
 D. D

Question ID : 5834936882
Status : Answered
Chosen Option : A