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Q 1) Select the suitable alternative to the relationship.

Arctic : Antarctic :: Cancer:

- a) Disease**
- b) Population**
- c) Capricorn**
- d) Equator**

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Q 2) Find the wrong number in the series.

12, 237, 406, 527, 604, 657

a) 406

b) 657

c) 604

d) None of these

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**Q 3) Select the choice that represents
the given number the best.
1725552:**

a) NPNRRRS

b) NNPQQRS

c) ABCDEFF

d) ABCDDDC

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Q 4) The equator does not pass through which of the following countries:

a) Kenya

b) Indonesia

c) Mexico

d) Brazil

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Q 5) How many countries are members of the SAARC organization?

a) 10

b) 9

c) 8

d) None of these

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Q 6) The resultant of two forces each equal to P and acting at right angles is:

a) $P/\sqrt{2}$

b) $P/2$

c) $P/2\sqrt{2}$

d) $\sqrt{2}p$

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Q 7) Which of the following is a scalar quantity?

a) Force

b) Velocity

c) Speed

d) Acceleration

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Q 8) A beam extending beyond the supports is called:

a) Simply supported beam

b) Fixed beam

c) Overhanging beam

d) Continuous beam

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Q 9) The maximum bending moment of a simply supported beam of span l and carrying a point load w at the centre of the beam is:

a) $wl/4$

b) $wl/2$

c) wl

d) $wl^2/6$

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Q 10) The ratio of specific weight of a liquid to the specific weight of pure water at a standard temperature is called:

- a) Density of liquid**
- b) Specific gravity of liquid**
- c) Compressibility of liquid**
- d) Surface tension of liquid**

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Q 11) The point at which the resultant pressure on a immersed surface acts, is known as:

- a) Centre of Gravity**
- b) Centre of depth**
- c) Centre of pressure**
- d) Centre of immersed surface**

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Q 12) The hydraulic mean depth or the hydraulic radius is the ratio of:

- a) Area of flow and wetted perimeter**
- b) Wetted perimeter and diameter of pipe**
- c) Velocity of flow and area of flow**
- d) None of these**

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Q 13) Reynolds number is the ratio of the inertia force to the:

a) Surface tension force

b) Viscous force

c) Gravity force

d) Elastic force

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Q 14) A pelton wheel is:

a) Tangential flow impulse turbine

b) Inward flow impulse turbine

c) Outward flow impulse turbine

d) Inward flow reaction turbine

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Q 15) The bricks should be burnt at temperature from:

a) 300°C to 500°C

b) 700°C to 1000°C

c) 500°C to 700°C

d) 900°C to 1200°C

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Q 16) In plane surveying:

- a) The curvature of the earth is taken consideration**
- b) The curvature of the earth is not taken consideration**
- c) The degree of accuracy of surveys is high**
- d) The surveys extend over large areas**

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Q 17) Which of the following formula is used for computing the quantity of water for fire demand?

a) Freemans formula

b) Bustons formula

c) Kuichling formula

d) All of these

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Q 18) The most common cause of acidity in water is:

a) Hydrogen

b) Carbon dioxide

c) Oxygen

d) All of these

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Q 19) An arrangement for backwashing is provided in:

a) Slow sand filter

b) Sedimentation tank

c) Rapid sand filter

d) All of these

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Q 20) The water content ratio of a soil is defined as the ratio of the:

- a) Weight of water to the weight of solids**
- b) Volume of water to the volume of voids in the soil mass**
- c) Total volume of voids to the volume of soil solids**
- d) Total volume of voids to the total volume of soil**

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Q 21) The effective size of a soil is:

a) D10

b) D40

c) D20

d) D60

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Q 22) Reinforced cement concrete is equally strong in taking:

a) Tensile and compressive stresses

b) Compressive and shear stresses

c) Tensile, compressive and shear stress

d) Tensile and shear stresses

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Q 23) If σ_{cb} is the permissible stress in compression due to bending in concrete in N/mm^2 , the modular ratio (m) is of the order of:

a) $280/3\sigma_{cb}$

b) $280/4\sigma_{cb}$

c) 19

d) 23

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Q 24) The centre to centre spacing of vertical stirrups, in a rectangular beam, is:

- a) Increased towards the centre of the span of the beam**
- b) Decreased towards the centre of the span of the beam**
- c) Increased at the ends**
- d) None of these**

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Q 25) For one cubic meter of brick masonry, number of standard bricks required, is:

a) 400

b) 500

c) 450

d) 550

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Q 26) The initial setting time of ordinary Portland cement, is _____ minutes:

a) 15

b) 45

c) 30

d) 60

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**Q 27) Angles of 45° with a chain line
may be set out with:**

- a) Optical square**
- b) Open cross staff**
- c) French square**
- d) Prismatic square**

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Q 28) The reduced bearing of a line is N 87° W, Its whole circle bearing is:

a) 87°

b) 273°

c) 173°

d) 183°

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Q 29) The centre of gravity of a ISA 60x60x6 in the form of L, from the bottom is:

a) 7.20 mm

b) 7.22 mm

c) 7.21 mm

d) 7.23 mm

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Q 30) If a three hinged parabolic arch carries a uniformly distributed load on its entire span, every section of the arch resists:

- a) Tensile force**
- b) Compressive force**
- c) Shear force**
- d) Bending moment**

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Q 31) In a loaded beam, the point of contra-flexure occurs at a section, where:

- a) BM is zero**
- b) BM is maximum**
- c) BM is minimum**
- d) SF is minimum**

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Q 32) The number of points of contra-flexure in a fixed beam carrying uniformly distributed load, is:

a) 3

b) 2

c) 1

d) 0

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Q 33) Hydrostatic pressure on a dam depends upon its:

- a) Length**
- b) Breadth**
- c) Depth**
- d) All of these**

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Q 34) Cowl is provided at:

a) Lower end of the ventilating column

b) Upper end of ventilating column

c) Upper end of the manhole

d) Lower end of manhole

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**Q 35) The rising of road towards
outer radius is called:**

a) Camber

b) Super elevation

c) Curve

d) Ridge

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**Q 36) Disinfection of drinking water
is done to remove:**

- a) Odour**
- b) Colour**
- c) Turbidity**
- d) Bacteria**

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Q 37) The maximum pressure which a soil can carry without shear failure, is called:

- a) Net safe bearing capacity**
- b) Safe bearing capacity**
- c) Net ultimate bearing capacity**
- d) Ultimate bearing capacity**

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Q 38) Separation of water or water sand cement from a freshly mixed concrete, is known:

- a) Bleeding**
- b) Flooding**
- c) Creeping**
- d) Segregation**

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**Q 39) Workability of concrete mix
with low water cement ratio is
determined by:**

- a) Slump test**
- b) Tensile test**
- c) Compaction factor test**
- d) All of these**

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Q 40) The grade of concrete not recommended by IS 456:2000, is:

a) M20

b) M80

c) M60

d) M90

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Q 41) Le-chatelier's apparatus is used for cement testing:

a) Hardness

b) Soundness

c) Initial setting time

d) Strength

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Q 42) In a cantilever beam, always the tension reinforcement bars are placed, at:

a) Side

b) Top

c) Bottom

d) All of these

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Q 43) A cantilever RCC beam 230mm×450mm effective depth has span 4m and carries a UDL of 500 KN/m inclusive of its self-weight, the bending moment is:

a) 1000 KNM

b) 3000 KNM

c) 2000 KNM

d) 4000 KNM

Q 44) An ISA 50×50×6 is welded on a gusset plate of 20mm thick with fillet weld size 4mm, The Over all total length of weld is 100mm, the effective length of weld is:

- a) 100 mm**
- b) 92 mm**
- c) 96 mm**
- d) 90 mm**

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Q 45) Moment of Inertia for a circular section has 20cm diameter, is:

a) 7852 cm^4

b) 7854 cm^4

c) 7853 cm^4

d) 7855 cm^4

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Q 46) The slenderness ratio of a steel member is:

- a) Length/minimum side dimension**
- b) Effective length/radius of gyration**
- c) Effective length/corresponding radius of gyration**
- d) Effective length/least radius of gyration**

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Q 47) The minimum cover for bars in RCC slabs should be:

- a) 15 mm**
- b) 15 mm or dia of bars**
- c) 25 mm or dia of bars**
- d) 15 mm or the size of the aggregate**

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Q 48) Volumetric expansion of soil due to shear in a drained shear test is called:

- a) Thixotropy**
- b) Swelling**
- c) Dilatancy**
- d) Creep**

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Q 49) Shear stress in the Newtonian fluid is proportional to:

a) Pressure

b) Strain

c) Strain rate

d) The inverse of the viscosity

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Q 50) A floating body is in stable equilibrium:

- a) When its metacentric height is zero**
- b) When the centre of gravity of the body is below the centre of buoyancy**
- c) When its metacentre is above the centre of gravity of**
- d) In none of the above situations**

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**Q 51) The minimum super elevation
or curves should not be less than:**

a) 0.05

b) 0.04

c) Camber

d) None of these

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Q 52) Which one of the following forms of chlorine has no disinfectant property:

a) Hypochlorous acid

b) Hypochlorite ion

c) Trichloramine

d) Monochloramine

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**Q 53) The most coagulant used for
is:**

a) Chlorine

b) Ferrous oxide

c) Alum

d) Ozone

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Q 54) During leveling if back sight is more than fore sight:

- a) Forward staff is at lower point**
- b) Back staff is at lower point**
- c) The difference in level can not be ascertained**
- d) None of these**

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Q 55) If the depth of a simply supported beam carrying an isolated load at its centre is doubled, the deflection at centre will be changed by a factor of:

a) 2

b) 43497

c) 4

d) 43678

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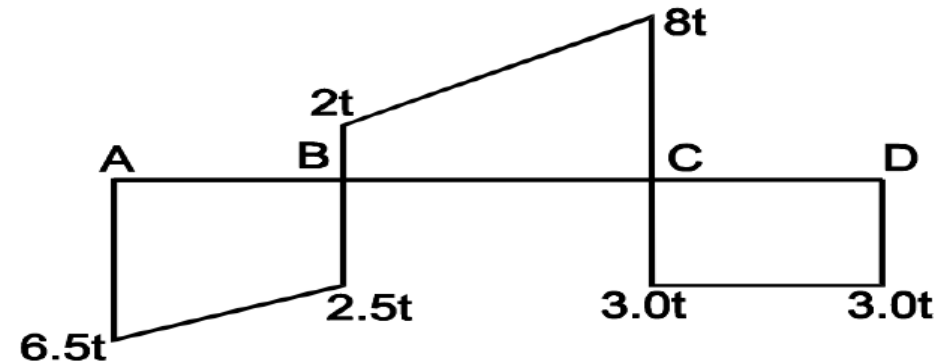
Q 56) Pick up the correct statement from the following:

- a) If the ratio of depth and width is less than 2 it is shallow foundation**
- b) If the ratio of depth and width is more than 2 it is deep foundation**
- c) If the ratio of the length & width is between 1 & 2, it is spread foundation**
- d) All of these**

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Q 57) The following figure shows the shear force diagram for a beam simply supported. The maximum BM for the loaded beam is:



a) 13.0 tm at B

b) 9 tm at B

c) 48 tm at C

d) None of these

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Q 58) A truss which contains j joints and m members will be a simple truss if:

a) $m=2j-3$

b) $m=3j-3$

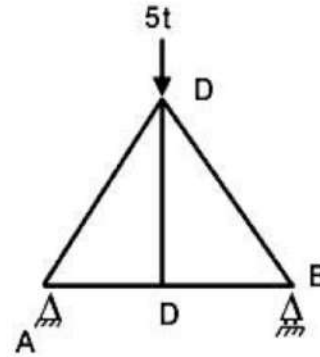
c) $j=2m-3$

d) $j = 3m-2$

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Q 59) The force in member CD of truss shown in figure is:



- a) **5 t compression**
- b) **2.5 t compression**
- c) **5 t tension**
- d) **None of these**

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Q 60) The length of a line measured with 20 m chain is found to be 400 m. If the actual length of the chain is 20.05 m, the true length of the line, is:

a) 400.5m

b) 399.5m

c) 401.0m

d) 399.0 m

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Q 61) If the area of tensile steel reinforcement is doubled, the moment of resistance of the beam increases only by about:

a) 0.12

b) 0.32

c) 0.22

d) 0.42

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Q 62) The instrument which is used in plane tabling for obtaining horizontal and vertical distance directly without resorting to changing, is known as:

- a) Planimeter**
- b) Pelescopic alidade**
- c) Plane alidade**
- d) Clinometer**

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Q 63) The total pressure on the retaining wall acts at:

a) $h/2$ from the base

b) $h/3$ from the base

c) $2h/3$ from the base

d) $3h/4$ from the base

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Q 64) A steel rod mm in diameter, 300 cm long is subjected to a sudden pull of 10 tonnes the maximum instantaneous stress induced in the rod will be:

- a) Less than 0.5 tonne / cm²**
- b) Less than 0.75 tonne / cm²**
- c) More than 1 tonne / cm²**
- d) More than 2 tonne / cm²**

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Q 65) BOD represents:

a) Pollution strength of a waste

b) Pollution strength of an organic fraction of wastes

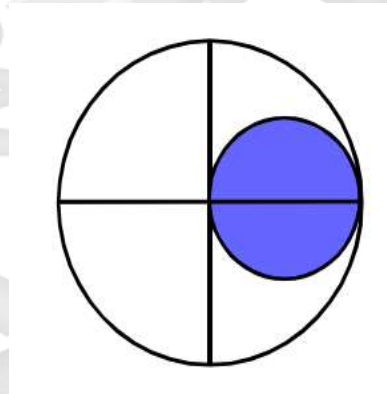
c) Pollution strength of inorganic fraction of wastes

d) Pollution strength of biodegradable organic waste

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Q 66) A circular hole of 50 mm diameter is cut out from a circular disc of 100 mm diameter as shown in Fig. The center of gravity of the section will lie:



a) In the bigger circle

b) In the hole

c) At center of bigger circle

d) At center of smaller circle

Q 67) The method of Three-moment equations is used to analyze:

- a) Statically indeterminate trusses**
- b) Statically indeterminate frames**
- c) Statically determinate frames**
- d) Statically indeterminate multi-span beam**

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Q 68) For the purpose of foundation design, silt can be classified as:

a) Cohesionless soil

b) Limited cohesive soil

c) Highly cohesive soil

d) None Of these

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Q 69) A reinforced concrete beam is cast during a summer month when the ambient temperature is around 42°C . During the winter when the ambient temperature is around 5°C , the stress in the concrete will be:

- a) Compressive**
- b) Compressive as well as tensile as in flexure**
- c) Tensile**
- d) The same as at the time of casting**

Q 70) Principal Plane is a plane in a stressed body of material on which

- a) Shear stress is zero**
- b) Shear stress is maximum**
- c) Shear stress is minimum**
- d) None of the above statements is applicable**

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Q 71) Purlins are used as structural members in trussed roofs. The purlins are primarily:

- a) Tension members**
- b) Compression members**
- c) Shear resisting members**
- d) Flexural members**

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Q 72) In a riveted connection, a minimum distance of the rivet from the edge is kept with a view to preventing failure due to

a) Shearing of rivet

b) Bearing on rivet

c) Shearing of plate

d) Tearing of plate

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Q 73) The tie bars in a concrete pavement are provided in:

a) Contraction joints

b) Longitudinal joints

c) Expansion Joints

d) Construction joints

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Q 74) The laboratory test to determine hardness of the road aggregates is:

a) Impact Test

b) Los Angeles Abrasion Test

c) Crushing test

d) Soundness test

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Q 75) Allowable bearing pressure for a foundation depends on:

- a) Allowable settlement only**
- b) Ultimate bearing capacity of soil**
- c) Both allowable settlement and ultimate bearing capacity**
- d) Neither allowable settlement nor ultimate bearing capacity**

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