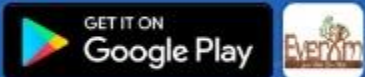




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Daily Class – 7:00 PM

Q : 1) If the water flow through the runner in radial direction but leaves in the direction parallel to axis of rotation of the runner, the turbine is called:

A : Reaction turbine

B : Mixed flow turbine

C : Inward turbine

D : Radial flow turbine

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Daily Class – 7:00 PM

Q : 2) Which of the following theory is also known as Beltrami or Haigh's theory?

A : Maximum distortions theory

B : Maximum strain energy theory

C : Maximum shear stress theory

D : Maximum principal stress theory

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Daily Class – 7:00 PM

Q : 3) The maximum stress at which even billion reversals of stress cannot cause fatigue failure of the material is called as:

- A : Factor of safety**
- B : Lower limit**
- C : Endurance limit**
- D : Permissible limit**

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Daily Class – 7:00 PM

Q : 4) The turbine in which the vanes on the hub are adjustable is known as :

A : Kaplan turbine

B : Impulse turbine

C : Reaction turbine

D : Pelton wheel

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Daily Class – 7:00 PM

Q : 5) What type of mode of failure is seen if footing is resting on very dense sand, loaded by transient dynamic loads?

A : Local shear failure

B : General shear failure

C : Punching shear failure

D : Flexural failure

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Daily Class – 7:00 PM

Q : 6) In time-cost optimization of a project, _____ is done on original critical activities and that those become critical at any stage of crashing in order of cosending cost slope.

A : Thrashing

B : Binding

C : Crashing

D : Spearing

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Daily Class – 7:00 PM

Q : 7) In which system, the floor slab is supported directly on the columns, without the presence of stiffening beams, except at the periphery is:

A : Vertical framing system

B : Ribbed slab system

C : Transfer girders

D : Flat plate system

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Daily Class – 7:00 PM

Q : 8) Fundamental natural period of vibration for steel frame building having height of building 30 m is:

A : 2.421 seconds

B : 1.089 seconds

C : 1.643 seconds

D : 1.923 seconds

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Daily Class – 7:00 PM

Q : 9) The maximum to lerances including side wear are permitted for meter gauge at curves up to 60o is:

A : 4 mm tight to 8 mm slack

B : 3 mm tight to 6 mm slack

C : 5 mm tight to 10 mm slack

D L 2 mm tight to 4 mm slack

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Daily Class – 7:00 PM

Q : 10) Which of the following is not an admixture used to alter one or more specific properties of concrete?

A : Retarders

B : Polymer bonding agents

C : Plasticizers

D : Grouting admixtures

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Daily Class – 7:00 PM

Q : 11) Standard width of asbestos cement corrugated sheets is:

A : 1.08 m

B : 1.010 m

C : 1.20 m

D : 1.05 m

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Daily Class – 7:00 PM

Q : 12) _____ refers to the amount of empty space within a given material.

A : Strength

B : Viscosity

C : Porosity

D : Softness

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Daily Class – 7:00 PM

Q : 13) Minimum pitch for M16 bolt of grade 4.6 is?

A : 40

B : 18

C : 27

D : 50

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Daily Class – 7:00 PM

Q : 14) The condition in which soil gets clogged by preventing oxidation due to continuous application of sewage is called :

A : Land sickness

B : Anaerobic sickness

C : Sewage sickness

D : Sewage hardening

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Daily Class – 7:00 PM

Q : 15) The shortest distance from the root of the fillet weld to the face of the weld is called as :

A : Effective throat thickness

B : Effective length

C : Effective area

D : Effective depth

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Daily Class – 7:00 PM

Q : 16) Which of the following is NOT a kharif crop?

A : Wheat

B : Rice

C : Bajra

D : Jawar

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Daily Class – 7:00 PM

Q : 17) Which of the following is a secondary air pollutant?

A : Carbon dioxide

B : Nitrogen oxide

C : Particulate matter

D : Smog

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Daily Class – 7:00 PM

Q : 18) Which of these is a primary air pollutant?

A : Acid mists

B : Ozone

C : Photochemical smog

D : Halogen

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Daily Class – 7:00 PM

Q : 19) Consider the below statements with respect to seismic waves.

- 1. S-waves does not pass through a fluid**
- 2. Statement 1 is true and statement 2 is false**

Identify the correct statement

A : Statement 1 is false and statement 2 is true

B : Statement 1 is true and statement 2 is false

C : Both are false

D : Both are true

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Daily Class – 7:00 PM

Q : 20) Comminutors in waste water treatment plant are adopted to :

A : Remove colloidal matter

B : Grind or chop large sized suspended solids

C : Remove floating matter

D : Remove sand and grit

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Daily Class – 7:00 PM

**Q : 21) Abbreviate WBS as per
Construction management represents:**

A : Work bill sample

B : Bork booked signature

C : Work breakdown structure

D : Work bill structure

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Daily Class – 7:00 PM

Q : 22) Which of the following instrument is used for measuring illumination level of light?

A : Frequency meter

B : Lux meter

C : Harmonic analyser

D : Digital multi meter

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Daily Class – 7:00 PM

Q : 23) The size and shape of the earth's core can be measured by information from the:

A : P-wave shadow zone

B : S-wave shadow zone

C : Nature of meteorite

D : Earth's weight

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Daily Class – 7:00 PM

Q : 24) Which of the following is an artificial aggregate?

A : Granite

B : Air cooled slag

C : Basalt

D : Sandstone

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Daily Class – 7:00 PM

Q : 25) Which of the following is at the lowest level as per WBS?

A : Project

B : Task

C : Work package

D : Sub project

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Daily Class – 7:00 PM

Q : 26) Which limit states deals with strength, overturning, sliding, buckling, fatigue fracture, etc.?

A : Ultimate limit states

B : Strain limit state

C : Stress state

D : Serviceability limit states

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Daily Class – 7:00 PM

Q : 27) The design of bolt connection is generally done according to which of the following codes?

A : IS 318000 : 1985

B : IS 800 : 2007

C : IS 27000 : 1992

D : Is 9001 : 2002

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Daily Class – 7:00 PM

Q : 28) What does a yellow sign with a skull and cross bones indicate?

A : There is a risk from motorclists

B : There is a risk from animals

C : There is a risk from pirates

D : There is a risk of toxic hazard

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Daily Class – 7:00 PM

Q : 29) The compressive strength of concrete not more than 5% of the test results are expected to fall is known as

A : Minimum compressive strength

B : Twisting compressive strength

C : Characteristic compressive strength

D : Target mean compressive strength

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Daily Class – 7:00 PM

Q : 30) For an industrial waste water sample, which of the following conditions satisfy?

A : $BOD > COD$

B : $BOD = TOD$

C : $BOD = COD$

D : $BOD < COD$

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Daily Class – 7:00 PM

Q : 31) Who proposed the column analogy method used to analyse the indeterminate structures?

A : Euler

B : Mohr

C : Hardy cross

D : Castigliano

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Daily Class – 7:00 PM

Q : 32) The central sag or dip of the cable varies from :

A : (1.10)th to (1/15)th of the span

B : (1/10)th to (1/35)th of the span

C : (1/50)th to (1/100)th of the span

D : (1.5)th to (1/40)th of the span

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Daily Class – 7:00 PM

Q : 33) In absence of detailed design, approximately how much percentage for steel reinforcement may be considered for estimation of RCC lintels

A : 1.0 to 5.0%

B : 0.7 to 1.0%

C : 0.2 to 0.5%

D : 1.0 to 10.0%

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Daily Class – 7:00 PM

Q : 34) Which of the following is NOT a principal method of laying out water distribution system?

A : Dead-end system

B : Radial system

C : Grid-iron system

D : Pumping system

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Daily Class – 7:00 PM

Q : 35) The value at the end of the ultimaty period without being dismantled is termed as :

A : Market value

B : Salvage value

C : Scrap value

D : Book value

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Daily Class – 7:00 PM

Q : 36) Weight of one bag of cement is:

A : 70 kg

B : 50 kg

C : 60 kg

D : 65 kg

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Daily Class – 7:00 PM

Q : 37) Los angles machine is used to test aggregate _____

A : Crushing strength

B : Impact value

C : Abrasion resistance

D : Water absorption

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Daily Class – 7:00 PM

Q : 38) The insoluble residue in cement should be

A : Between 20% to 25%

B : Less than 20%

C : Between 10% to 20%

D : Less than 1.5%

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Daily Class – 7:00 PM

Q : 39) For checking the length of bricks as per Indian standards how many bricks are to be taken:

A : 10

B : 15

C : 20

D : 25

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Daily Class – 7:00 PM

Q : 40) In analysis of rates, contractor profit is taken at the rate of

A : 1%

B : 5%

C : 10%

D : 20%

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Daily Class – 7:00 PM

Q : 41) Thickness of plastering is usually:

A : 6 mm

B : 12 mm

C : 25 mm

D : 40 mm

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Daily Class – 7:00 PM

Q : 42) No deduction is made while plaster measurement is case of small openings upto

A : 0.1 sq.m

B : 0.3 sq.m

C : 0.5 sq.m

D : 0.7 sq.m

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Daily Class – 7:00 PM

Q : 43) Principle of surveying followed to prevent accumulation of errors is:

A : To work from whole to part

B : To work from part to whole

C : Both (A) & (B)

D : None of above

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Daily Class – 7:00 PM

Q : 44) As per Indian standard, the length of one link in 30 m chain is

A : 30 cm

B : 20 cm

C : 40 cm

D : 10 cm

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Daily Class – 7:00 PM

Q : 45) If reduced bearing of a line is N 87° W, its whole circle bearing will be:

A : 87°

B : 93°

C : 3°

D : 267°

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Daily Class – 7:00 PM

Q : 46) In a plane table survey, the plotting of inaccessible points can be conveniently done by

A : Method of resection

B : Method of radiation

C : Method of traversing

D : Method of intersection

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Daily Class – 7:00 PM

Q : 47) Line joining points of equal elevations on earth surface is called

A : Contour surface

B : Contour gradient

C : Contour line

D : All of above

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Daily Class – 7:00 PM

Q : 48) If angle of internal friction of soil is 30° , coefficient of active earth pressure will be:

A : $\frac{1}{2}$

B : $\frac{1}{3}$

C : $\frac{1}{4}$

D : $\frac{2}{3}$

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Daily Class – 7:00 PM

Q : 49) The angle of internal friction ϕ for cohesive soils is equal to

A : 0°

B : 30°

C : 45°

D : 15°

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Daily Class – 7:00 PM

Q : 50) Plasticity index of soil is equal to

A : Liquid limit – plastic limit

B : Liquid limit – Elastic limit

C : Elastic limit – plastic limit

D : Elastic limit – consistency limit

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Daily Class – 7:00 PM

Q : 51) Coefficient of uniformity is

A : $\frac{D_{60}}{D_{30}}$

B : $\frac{D_{20}}{D_{10}}$

C : $\frac{D_{50}}{D_{40}}$

D : None of above

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Daily Class – 7:00 PM

Q : 52) The maximum size of clay particle is

A : 0.1 mm

B : 0.03 mm

C : 0.002 mm

D : 0.0002 mm

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Daily Class – 7:00 PM

Q : 53) If salt is added in water, the surface tension of water will:

A : Increase

B : Decrease

C : Will not change

D : None of the above

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Daily Class – 7:00 PM

Q : 54) When metacenter and center of gravity of any floating body coincide, the floating body will be:

- A : In stable equilibrium**
- B : In unstable equilibrium**
- C : In neutral equilibrium**
- D : In real equilibrium**

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Daily Class – 7:00 PM

Q : 55) Flow in a pipe is laminar if the Reynold's number is

A : Less than 2000

B : Between 2000 and 4000

C : Between 4000 and 6000

D : Equal to 10000

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Daily Class – 7:00 PM

Q : 56) When various fluid particle move in Zig-zag paths, flow is called :

A : Laminar flow

B : Turbulent flow

C : Uniform flow

D : None of above

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Daily Class – 7:00 PM

Q : 57) The colour of upper part of kilometer stone on road side in case of state highway is

A : Green

B : Yellow

C : Brown

D : Red

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Daily Class – 7:00 PM

Q : 58) The width of broad gauge is

A : 1.576 m

B : 1.676 m

C : 1.776 m

D : 1.67 m

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Daily Class – 7:00 PM

Q : 59) The value of ruling gradient in plains as per Indian Road congress is

A : 1 in 10

B : 1 in 15

C : 1 in 20

D : 1 in 30

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Daily Class – 7:00 PM

Q : 60) The maximum allowable super elevation is:

A : 1 in 12

B : 1 in 18

C : 1 in 15

D : 1 in 30

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Daily Class – 7:00 PM

Q : 61) Manhole is generally provided at each:

A : Bend

B : Junction

C : Change of gradient

D : All of above

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Daily Class – 7:00 PM

Q : 62) The solid content of sewage is usually:

A : 99%

B : 80%

C : 15%

D : 1%

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Daily Class – 7:00 PM

Q : 63) The dissolved oxygen concentration _____ with the increase in temperature of water.

A : Decreases

B : Increases

C : Remains same

D : Sometimes increases and sometimes decreases

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Daily Class – 7:00 PM

Q : 64) As per Indian standard (IS 10500 : 2012) of drinking water specification, concentration of iron in drinking water should not exceed.

A : 0.5 mg/L

B : 0.4 mg/L

C : 0.3 mg/L

D : 0.2 mg/L

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Daily Class – 7:00 PM

Q : 65) As per National ambient air quality standards, maximum permissible concentration of NO₂ (24 hr. average) in ambient air in residential area is

A : 100 $\mu\text{g}/\text{m}^3$

B : 80 $\mu\text{g}/\text{m}^3$

C : 60 $\mu\text{g}/\text{m}^3$

D : 40 $\mu\text{g}/\text{m}^3$

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Daily Class – 7:00 PM

Q : 66) The breadth of rib in a T-beam should at least be equal to the _____ depth of rib.

A : One-half

B : One-third

C : One-fourth

D : One-sixth

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Daily Class – 7:00 PM

Q : 67) The tensile strength of concrete, expressed as the ratio of compressive strength is

A : $\frac{1}{25}$

B : $\frac{1}{20}$

C : $\frac{1}{15}$

D : $\frac{1}{10}$

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Daily Class – 7:00 PM

Q : 68) In a pre-stressed concrete structure

A : Dead load of structure is reduced

B : Cracking of concrete is avoided

C : The cost of supporting structure and foundation is reduced

D : All of the above

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Daily Class – 7:00 PM

Q : 69) If σ_s is the stress in bar and τ_{bd} is the design bond stress then the development length of a bar of diameter ϕ is given by:

A : $\frac{4\phi \sigma_s}{\tau_{bd}}$

B : $\frac{\phi \sigma_s}{4 \tau_{bd}}$

C : $\frac{2\phi \sigma_s}{3 \tau_{bd}}$

D : $\frac{\phi \sigma_s}{3\tau_{bd}}$

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Daily Class – 7:00 PM

Q : 70) In the design of a two-way slab restrained at all edges torsional reinforcement required is'

A : 0.375 times the area of steel provided in shorter span

B : 0.375 times the area of steel provided at mid-span in the same direction

C : 0.75 times the area of steel provided at mid span in the same direction

D : None of the above

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Daily Class – 7:00 PM

**Q : 71) In double reinforced sections,
total reinforcement percentage should
not exceed:**

A : 4

B : 6

C : 8

D : 10

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Daily Class – 7:00 PM

Q : 72) A reinforced concrete beam, supported on columns at ends, has a clear span 5 m and 0.5 m effective depth, It carries a total uniformly distributed load 100 kN/m. The design shear force for the beam is

A : 250 kN

B : 200 kN

C : 175 kN

D : 150 kN

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Daily Class – 7:00 PM

Q : 73) The term 'Characteristic load' means that load which has a probability of not being exceeded, during the life of structure is equal to :

A : 90%

B : 95%

C : 99%

D : 100%

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Daily Class – 7:00 PM

Q : 74) The tensile strength of concrete in flexure as per IS : 456 is :

A : $0.6 \sqrt{f_{ck}}$

B : $0.7 \sqrt{f_{ck}}$

C : $0.75 \sqrt{f_{ck}}$

D : $0.9 \sqrt{f_{ck}}$

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Daily Class – 7:00 PM

Q : 75) For a slab spanning in two directions the ratio of span to the depth of slab should not exceed

A : 10

B : 20

C : 35

D : 50

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