## CIVIL ENGINEERING

DPPSAAE

## OBJEGTIVE QUESTION PRAGTICE PROGRAM

## 1500 ＋questions

COURSE DURATION：－ $100+H R S$

APPLY ONLINE
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Q: ) A ladder of weight W is resting against a smooth vertical wall and a smooth floor. The minimum force to be applied at the floor end to keep it in equilibrium at angle $\theta$ with floor is:
A: W $\tan \theta$
B: $0.5 \mathrm{~W} \tan \theta$
C : W $\cot \boldsymbol{\theta}$
D : $0.5 \mathrm{~W} \cot \boldsymbol{\theta}$

Q: ) A block of weight 20 kN just begins to move along a horizontal surface on application of 5 kN horizontal force. The coefficient of friction between block and surface is:
A : 0.1
B : 0.2
C : 0.25
D : 0.5

Q: ) Which of the following is an incorrect assumption in the analysis of truss?
A : All joints are pinned
B : Loads applied at joints only
C : All members are straight
D : Weights of members are acting at their centres

Q: ) During strain hardening:
A : Material undergoes changes in atomic and crystalline structures
B : Increased resistance to further deformation
C : Stress strain diagram has positive slope
D : All the above

## Q: ) Ability of a material to absorb energy within the

 elastic range:A : Toughness
B : Elasticity
C : Stiffness
D : Resilience

## Q: ) A cantilever beam fixed at left end carries a udl

 w/unit length over the left half portion and a point load $\mathbf{W}$ at the free end. If $L$ is the length of the beam, the bending moment at fixed end is:$$
\begin{aligned}
& \text { A: } \frac{W L}{2}+\frac{w L^{2}}{4} \\
& \text { B: } \frac{w L}{2}+\frac{W L^{2}}{4} \\
& \text { C: }: w+\frac{w L^{2}}{8}
\end{aligned}
$$

$$
\mathbf{D}: W L+\frac{w L^{2}}{8}
$$

Q: ) The Poisson's ratio of a material is 0.3 and Young's modulus is 200 GPa . Its Rigidity Modulus is:
A: 77 Gpa
B : 51 GPa
C : 125 GPa
D : 333 GPa

Q: ) Bending moment $M$ and torque $T$ are applied on a solid circular shaft. If the maximum bending stress is equal to the maximum shear stress developed, $M$ is equal to:
A:T
B : 2T
C: T/2
D : T/3

Q: ) Surface tension is caused by a force of the free surface.
A : Adhesion
B : Cohesion
C : Both (a) and (b)
D : Either (a) or (b)

Q: ) Find the height of a mountain if pressure measured at its base and top are 74 cm and 60 cm of mercury respectively. Specific weight of air is $11.97 \mathrm{~N} / \mathrm{m}^{3}$ :
A : 1000 m
B : 1750 m
C: 2600 m
D : 1560 m

Q: ) A stable submerged body has:
A : Centre of gravity below centre of buoyancy
B : Centre of gravity below metacenter
C : Centre of gravity above centre of buoyancy
D : Centre of gravity above metacenter

## Q: ) Poise is the unit of:

A : Density
B : Velocity gradient
C : Kinematic viscosity
D : Dynamic viscosity

Q: ) The velocity distribution at any section of a pipe for steady laminar flow is:
A : Linear
B : Exponential
C : Parabolic
D : Constant

Q: ) In flow through pipe, the efficiency of transmission under conditions of maximum power transmission is: A : 0.5
B : 0.6667
C: 0.7
D : 0.959

Q: ) A rectangular channel will be most economical when the flow depth and bottom width are in the ratio: A : 2:1
B : 1:1
C: 1:2
D : 1:4

Q: ) Water flow in large sized pipes for large flow rates can be measured using:
A : Orifices
B : Notches
C : Venture meter
D : Elbow meter

Q: ) An inward flow reaction turbine:
A : Impulse turbine
B : Francis turbine
C : Pelton turbine
D : All of the above

Q: ) The amount of moisture present in the air expressed as mass per unit volume is:
A : Absolute humidity
B : Saturation rate
C : Vapor pressure
D : All the above

## Q: ) The salt concentration in irrigation water is

 generally measured by:A : SAR value
B : Electrical conductivity value
C: pH value
D: BOD value

Q: ) Optimum depth of kor-watering for rice is:
A : 13.5 cm
B : 16.5 cm
C: 19 cm
D : 20 cm

Q: ) The crop period of a crop is 120 days. It requires 10 cm depth of water at every $\mathbf{1 0}$ days. Its delta is: A: 120 cm
B : 60 cm
C : 12 cm
D : 6 cm

Q: ) Which of the following is a measure of dynamic modulus of elasticity of concrete?
A : Tangent modulus
B : Secant modulus
C : Initial tangent modulus
D : All the above

Q: ) When reinforcement bars placed short of their required length need to be extended, we use:
A : Anchorages
B : Standard bends and hooks
C: Development length
D : Splices

## Q: ) Relation between Young's modulus and cube

 strength of concrete is:$\mathrm{A}: \mathrm{E}_{\mathrm{c}}=500 \mathrm{Vf} \mathrm{ck}$
$B: E_{c}=5700 v f_{c k}$
C : $\mathrm{E}_{\mathrm{c}}=5000 \mathrm{Vf} \mathrm{ck}$
$D: E_{c}=700 \mathrm{Vf} \mathrm{ck}$

Q: ) The minimum area of tension reinforcement required in a rectangular beam section $200 \mathrm{~mm} \times 400$ mm if Fe415 steel is used at $\mathbf{2 5 ~ m m}$ effective cover:
A : $154 \mathrm{~mm}^{2}$
B : $180 \mathrm{~mm}^{2}$
C: $164 \mathrm{~mm}^{2}$
D : $193 \mathrm{~mm}^{2}$

Q: ) Effective span of a simply supported beam is:
A : Face to face distance of supports
B : Clear span + effective depth
C : Clear span - effective depth
D : Clear span + effective depth/2

Q: ) Minimum grade of concrete for pre tensioned prestressed concrete:
A: M20
B : M30
C : M40
D: M45

Q: ) Minimum reinforcement required in either direction in slabs reinforced with high strength deformed bars is:
A : 0.11
B : 0.12
C : 0.15
D: 0.17

## Q: ) Structural steel of grade Fe410 A has ultimate

 tensile strength of:A : 410 MPa
B : 328 MPa
C: 300 MPa
D : 520 MPa

Q: ) The diameter of bolt hole for a bolt of nominal size 12 mm is:
A : 12.0 mm
B : 12.5 mm
C : 13.0 mm
D : 14.0 mm

Q: ) Common hot rolled steel axial compression members fail by:
A : Gross section yielding
B : Critical section rupture
C : Block shear
D : Flexural buckling

Q: ) As per Indian Standards, the maximum bearing pressure at the column base should not exceed the bearing strength equal to:
A : $0.40 f_{\text {ck }}$
B : $0.45 \mathrm{f}_{\mathrm{ck}}$
$\mathrm{C}: 0.50 \mathrm{f}_{\mathrm{ck}}$
D : $0.60 \mathrm{f}_{\mathrm{ck}}$

Q: ) Which of the following decides the width of taxiway?
A : Tail width
B : Fuselage length
C: Wheel base
D : Wing span of aircraft

Q: ) The gauge of a railway track is defined as: A : The clear distance between inner faces of two rails B : The clear distance between outer faces of two rails
C : The centre to centre distance between two rails D : The distance between inner faces of a pair two wheels

Q: ) Equilibrium cant for a $3^{\circ}$ curve on a Broad Gauge track, if the permitted speed is 70 kmph , is:
A : 18.85 cm
B : 16.20 cm
C : 15.85 cm
D : 11.25 cm

Q: ) The value of dismantled materials:
A: Scrap value
B : Ratable value
C : Salvage value
D : Market value

Q: ) A beam $A B C$, is simply supported at $A$ and $B$ and $B C$ is overhanging. $A B=L$ and $B C=L / 2$ and it carries a point load $P$ at $C$. The deflection at $C$ is:

A $: \frac{P L^{2}}{24 E I}$
B $: \frac{P L^{3}}{8 E I}$
C $: \frac{P L^{3}}{48 E I}$
D $: \frac{P L^{2}}{16 E I}$

## GIVIL ENGINIEBRING



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