## Adda247

HPCL-01st \& 04th Nov 22

| Participant ID |  |  |
| :--- | :--- | :--- |
| Participant Name |  |  |
| Test Center Name |  |  |
| Test Date | $=$ | $04 / 11 / 2022$ |
| Test Time | $=$ | $9: 00$ AM $-11: 30$ AM |
| Subject | CIVIL ENGINEER |  |

Section : English Language
Q. 1 Select the most appropriate option to fill in the blank.

You $\qquad$ a new bicycle very soon.
Ans

1. will have
2. are having
3. have
4. were having
Q. 2 Select the most appropriate synonym of the given word.

Profligate
Ans

Q. 3 Select the most appropriate synonym of the given word.

Sultry
Ans 1. Humid
2. Dry
3. Cold
4. Freezing
Q. 4 Select the most appropriate option to fill in the blanks.

After the Somnath temple was $\qquad$ by Mahmud Gazni in 1025, it was $\qquad$ by the Parmara King Bhoja of Malwa between 1026 and 1042

Ans

1. destroyed, rebuilt
2. destroyed, rebuilding
3. destroy, rebuilt
4. destroying, rebuild
Q. 5 Select the most appropriate option to fill in the blank.

The children $\qquad$ cricket in the park when the ir mother came to pick them up.

## Ans

1. play
2. played
3. had been playing
4. had played
Q. 6 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The Education Minister called for collaborative efforts / by different countries to address common che llanges / at the G-20 education ministers' meeting.

Ans

1. No error
2. at the G-20 education ministers' meeting.
3. by different countries to addres common chellanges

4. The Education Minister called for collaborative efforts
Q. 7 Select the most appropriate meaning of the given idiom.

## Nutty as a fruitcake

Ans

1. Careful
2. Composed
3. Crazy
4. Contented
f a paragraph are given be low in jumbled order. Arrange the sentences in rder to form a meaningful and coherent paragraph.
e been many attempts over the centuries to find this 'hidden library,' but archers have come up empty-handed.
y of the Moscow Tsars supposedly contained a vast collection of ancient as well as texts written in a variety of other languages.
lat Ivan IV, better known as Ivan the Terrible, who lived from 1530 to ow hid the library's texts.
of the Grand Duchy of Moscow supposedly had built the library by 1518.
ost appropriate ANTONYM of the given word.
int
in
ble
ct

Question ID : 8401605307 Status: Marked For Review Chosen Option : 1
ost appropriate option to fill in the blank and complete the given proverb

omes
kittens
ost appropriate synonym of the given word.
ost appropriate option to fill in the blank.
you a _ account of my travels in Eastern Europe.
complete
omplete
complete
lete
ption that is NOT an antonym of another word by way of adding the prefix
propriate
have
prehend
able
ost appropriate option to fill in the blanks.
!n the yellow 137-carat Florentine Diamond $\qquad$ to Europe is a
bate.
d, material
ed, thing


Jrectly spelt word to fill in the blank.
rowd went into $\qquad$ around a popular film-star.
ya
ria
ria
ia
ost appropriate option to fill in the blank.
at Aurobindo College for the last seven years.
een teaching
t
3S
lught
ost appropriate option to fill in the blank.
ily jumps over the wall that separates the ir compound $\qquad$ ours.

ave chocolates in the ratio $7: 5$. If the difference in the number of $\mathbf{s} 28$, then the number of chocolates in the bigger box is:

the first number is equal to two-fifth of the second number. If 32 is added umber, it becomes six times the second number. Find the first number.

1, winning candidate got $70 \%$ of valid votes. If $15 \%$ of votes are invalid and 100 voters did not cast the ir votes, then the number of votes received by ndidate is:
2
j0
1

3
different ways can the letters of the word ABSENTEE be arranged?
ells laptops at a price $10 \%$ higher than the original price. As there is ises the cost again by $20 \%$. The percentage of profit is:

o of average marks obtained by Ramesh and Mahesh from the given table.

| English | Maths | Science |
| :---: | :---: | :---: |
| 63 | 65 | 55 |
| 45 | 66 | 58 |
| 62 | 54 | 67 |
| 49 | 98 | 73 |

of a fraction is increased by $15 \%$ and the denominator is decreased by $7 \%$, then the value of the becomes $\frac{5}{3}$. The original fraction is:
;ited a certain amount in the bank for 10 years, after which the amount is ! rate of interest is:
roots of $\frac{6}{x}-\frac{2}{x-1}-\frac{1}{x-2}=0$.
ig to ge ther and then ring at intervals of 3 seconds, 4 seconds, 6 seconds ds, respectively. After what interval (in seconds) will the bells again ring
er bought 12 dozen eggs at the rate of $₹ 4$ per egg. During transit, 18 eggs ।. He sold the remaining eggs at the rate of ₹ 5 per egg. Find his profit (in

er we ighs 900 g instead of $1 \mathbf{k g}$. By selling $5 \mathbf{k g}$ sugar at the cost of ₹18 ofit earned is:
| train is running at a speed of $64 \mathrm{~km} / \mathrm{h}$. In how much time (in seconds) will $\ddagger \mathrm{m}$ long train moving at a speed of $80 \mathrm{~km} / \mathrm{h}$ in the opposite direction?
: $2,5,7,9$ and $x$ is 9 and the average of $3,6,8,9$ and $y$ is 8 . Then the value of $x+y$ is:
$s$ are tossed, then the probability of getting at least two heads is:

er marked the selling price of certain products at $20 \%$ above the cost time of selling, he allows a certain discount and incurs $1 \%$ loss. What is ge of discount allowed?
sted ₹ 10,000 and ₹ 12,000 in a bank that offers $5 \%$ compound interest. The $f$ interest earned by them after two years is:
he time taken by a boat to cover 63 km upstream to the time taken by it to n downstream is $7: 8$. If the speed of the stream is $4.5 \mathrm{~km} / \mathrm{h}$, then in how an the boat cover 81 km in still water?
ntains milk and water in the ratio of 4:1. By adding 15 litres of water to the ratio becomes $2: 1$. Find the amount of milk in the mixture.
es
es
es
es

two numbers is $4: 5$ and the ir LCM is 220 , then the second number is:
rtake to do a piece of work for ₹984. A alone can do it in 8 days, while B
days. With the help of C , both of them can finish the work in 3 days. How
money for the work should be paid to $C$ ?
different ways can the letters of the word POLICE be arranged so that the s come to gether?

ve area of a right circular cone of slant height 17 cm is $138 \pi \mathrm{~cm}^{2}$. Find the height (in cm ).
wo tables and three chairs is ₹ 540 while that of two tables and one chair is
the cost of five chairs?
ngineer travels to his office at a speed of $72 \mathrm{~km} / \mathrm{h}$ and returns at a speed 'he average speed of his whole journey is:
।/h
1/h
।/h
1/h


Igent of the two touching circles $x^{2}+y^{2}+6 x-2 y+7=0$ and $x^{2}+y^{2}-4 x+7 y-9=0$ is:
$-9 y-16=0$
$+9 y-16=0$
$+9 y+16=0$
$x-9 y+16=0$
nan deposited an amount of $₹ 10,00,000$ at $10 \%$ interest compounded halfone year, he wishes to withdraw the amount. The interest earned is:
050
020
,500
200
oticed by a policeman. The thief started running at $9 \mathrm{~km} / \mathrm{h}$ and the rases him at $11 \mathrm{~km} / \mathrm{h}$. If the distance between the m is 200 m , how much policeman take to catch the thief?
$\overline{\sqrt{2}} \times 4 \sqrt{34-24 \sqrt{2}} 4=k$, then the value of $k$ lies between:
d 2
d 3
1.5
2.5

tween the outside and inside surface of a 15 cm long cylindrical metallic pipe is $330 \pi \mathrm{~cm}^{2}$. If the pipe
$: \mathrm{m}^{3}$ of metal, find the outer radius of the pipe (in cm).

24 students, the average weight of 18 boys is 28 and the average weight jirls is 29 . The average weight of the girls is:
values of $z$ will the following equation have equal roots?
$x^{2}+(z+1) x+1=0$
in do a piece of work in 20,30 and 60 days, respectively. In how many days work if he is assisted by $B$ and $C$ on every third day?

al Potential Test
e Abhimanyu, Mrinal and Vivran are standing at three different points. The ween Mrinal and Abhimanyu is two-third of distance between Vivran and Il lives ninety-five $m$ away from Vivran. What is the approximate distance to two decimal places) between Mrinal and Abhimanyu?
m
m
m
m
rale and female who voted in different booths namely B1, B2, B3, B4, B5 and B6 is shown in the Study the graph and answer the question.

total male voters voted in booth 4 (rounded up to two decimal places) and what is the ratio of number who voted in booth 2 and booth 5 respectively?
\%, 19:16
$\%, 13: 19$
\%, $19: 13$
$\%, 13: 16$
pair which is odd from the following options.
$r$ : Apathetic
II: Trivial
cule: Astronomical
Ient: Remote


I walking 17 m to wards the West, then turned left and walks 20 m . He again
walk 17 m . He yet again turns left and walks 15 m then turns right and
which direction is he standing with respect to the starting point?

- east
west
-west
east
iven be low are arranged in ascending order, then what is the sum of the th from the right and third from the left?
, 55, 29, 13, 68, 74, 56
onth falls on Friday, then what will be the day, 2 days after 2nd of the
day
day
lay
nay, Izaan, Shray, Divit, Ryan and Prisha sat for a test. Ryan scored more 10 didn't scored less than Anay. Divit scored less than Prisha. Shray ! than Anay. Prisha didn't score more than Ryan. Study the above ind choose the option that is definitely incorrect.
scored more than Anay.
scored more than Izaan.

ər will come next in the series?
i, 253, 277, ?
ption that is related to the third alphanumeric cluster in the same way as Ilphanumeric cluster is related to the first alphanumeric cluster.

FK13: ?
ər will come next in the series?
1, 565, 613, ?
her of Niyati. Lekha is maternal grandmother of Vihaan. Vamika is wife of s son-in-law of Lekha. Niyati is sister of Vihaan. Arnav is father-in-law of ha has only one child how is Vihaan related to Vamika?
าal grandson

amya, Aria, Samidha, Shay, Piya and Yara are standing in a line. Aria is taller
$o$ is not taller than Namya. Yara is shorter than Samidha. Piya is shorter

- $a$ is of same height as Namya. Study the above information and choose at is definitely incorrect.

Iha is taller than Namya.
s not shorter than Shay
is taller than Samidha.
; taller than Piya.
ode 'WIDEN' is coded as 'BBIXS' then how will 'PAGER' be coded in that

W
IX
ix
W
e word 'EXPERIENCE' are rearranged in the alphabetical order, then how are there which are in the same place as in the original sequence of the
lowing arrangement of letters and answer the question that follows:
IOYUKNWEIQGU
iwels are there in these arrangements which are placed before a

ption that will come in the place of question mark in the following word s.

L, CAH, VID, ?

Daniel and Noah started walking from the same point. Noah started
rds east and after 25 m turns right and walks 10 m . He then again turns right
I. Next he turns left and walks 10 m . Meanwhile Daniel started walking
$h$ and after 10 m he turns left and walks 6 m . He now turns left again, walks
ind then turns right and walks $\mathbf{4 m}$. Now he turns left and walks 11 m . At last $s$ left and walks 4 m . What is the direction of Daniel and Noah with respect g point respectively?
-east, South-west
I-west, South-east
east, North-west
west, North-east

Zoya, Jivin, Liya, Shyla, Manav, Parv, Shaanu and Navi are sitting aro und a facing the centre, not necessarily in the same order. Liya is not
eighbour of Shaanu. Jivin is third to the left of Manav. Shaanu is second to rv. Zoya is not an imme diate neighbour of either Manav or Jivin. Shaanu is diate left of Zoya. Navi is third to the right of Zoya. Who is sitting second Navi?
v
$ə r$ will come next in the series?

xC, Box Q, BoxP, BoxM, BoxT and BoxL are kept one over the other not $n$ the same order. Box $P$ is two places above of BoxT. There are two en Box $Q$ and Box C. No Box is above Box L. Box $Q$ is third from the top. two places above Box M?
:hi's daughter. Rudra is Saksham's son-in-law. Akshara is Mukta's mother
married to Saksham. Rudra is Namit's father and Khyati is Abir's sister.
Mukta's paternal grandfather. If Prachi has only 2 children, then how is d to Namit?
$\because$
in
nal aunt
ial aunt
ode 'LOVED' is coded as 'FSPIX' then how will 'SHADE' be coded in that

Y
IA
IA
IY
ption that will come in the place of question mark in the following word s.

X, MAG, JWP, ?

ing table and answer the questions.

|  | Marks |  |  |
| :--- | :--- | :--- | :--- |
|  | Sem I | Sem II | Sem III |
|  | 88 | 87 | 77 |
|  | 70 | 93 | 89 |
|  | 86 | 59 | 67 |
|  | 85 | 82 | 73 |

Ige (rounded up to two decimal places) the total marks in the three semesters of Aria are more than the me?
\%
\%
\%
\%
four group of letters are alike in a certain way, except one. Choose the

Ava, Jade, Jacob, Ste lla, Elias, Sofia, Austin and Luke live on eight rs in a building. The floors are numbered from bottom as first, second eighth. Only Ava lives onthe floor between Luke and Sofia. Austin lives oors below Elias. No one lives above Jacob who lives five floors above ives on the floor imme diately below Austin. Sofia lives on some floor Who lives two floors above Jade?

1
arun, Vibhor, Avneet, Prabha, Rohan and Diya are sitting in a row facing
th. Tarun is to wards left of Vibhor. Prabha is second to the left of Diya. Diya
neen Tarun and Vibhor. Avneet is not at the right end. Rohan is sitting at ght of Vibhor. Which of the following is sitting to the left of Prabha?

3t
$r$
imit, Kaira, Ishir, Adya, Tashi and Ramona are sitting in a park. Adya is not I Kaira. Ishir is not older than Tashi. Ramona is older than Adya. Kaira and same age. Nimit is not younger than Ishir. Study the above information and , ption that is definitely incorrect.
is not younger than Kaira
na is older than Kaira
is younger than Ishir
is not older than Tashi
ode $1,5,3,7,8,4$ and 6 are coded as $K, W, Z, O, D, X$ and $L$ respectively.
, digits of the number cluster are odd, then the first and last letter to be
o digits of the number cluster are even, then the first and last letter to be


NO
ZO
ked 7th from the top and Saira is ranked 6th from the bottom in an exam.
xam the ir position got exchanged and Saira was ranked 15 th from the ' many students in total gave the exams?
ıdents
idents

Venn diagram rectangle represents top wear, circle represents items with woollen clothes, triangle
design and square represents grey coloured items. Select the option which represents the number of
, wears.

ns of digit ' 1 ' is interchanged with the positions of digit ' 3 ', the positions interchanged with the positions of sign ' + ' and the positions of digit ' 7 ' is I with the positions of digit ' 2 ' then what is the value of the given
$+9-367 \div 29$

ption that will come in the place of question mark in the following series.
72, N 87, I 107 ,?
en statements and conclusions carefully. Assuming that the information
statements is true, even if it appears to be at variance with commonly
decide which of the given conclusions logically follow(s) from the

```
re loafers.
ts are heels.
:
ers are heels.
are loafers.
;onclusion II follows
zonclusions I and II follows
zonclusion I follows
rof the conclusions follows
```


## 10 wle dge <br> ee-fallhe ight of a hammer in standard penetration test?


esign period for pipe connections to the several treatment units in a scheme?
ars
liscometer is used to find the $\qquad$ in an experiment.
y of fluid
sient of discharge of fluid
sity of fluid

## Itriangulation, the maximum triangle closure is:

=
$=$
following statements to setup the theodolite at intermediate points on are correct?

10 int of curve is visible from the intermediate point. oint of curve is not visible from the intermediate point.
nents 1 and 2 are incorrect
nents 1 and 2 are correct
nent 1 is incorrect, but statement 2 is correct
nent 1 is correct,but statement 2 is incorrect
im carrying an external load $W$ with a bent tendon has angle of inclination ' $\theta$ ' and prestressed load ' $P$ '. :d load at the centre is:
$-2 \mathrm{P} \sin \theta$
$-\mathrm{P} \cos \theta$
$-\mathrm{P} \sin \theta$
$-2 \mathrm{P} \cos \theta$


## $f$ water is determined by using:

idity meter
ometer
ielometer
ubator

गllowing triangulations, which has the highest order and most precise
s ?
order
। order
order
d order
the following beam conditions is the degree of redundancy 2 ?
beam with half the beam under vertical uniform distributed load.
nd is fixed the other is free beam with half the beam under vertical uniform
ever beam with half the beam under verticalpoint load.
/ supported beam with full the beam under moment.
ics of fluid flo w, the flow is said to be ide al if:
sous force > 1
:ous force $=\infty$
cous force $=0$
:ous force $<1$

following statements in the context of capillary pressure in soils is NOT
ary pressure is more in coarse grained soils
ve stress increases due to capillary zone
is under tension in capillary zone
vater pressure is negative in capillary zone

## I of a quarter circle is:

## if solid waste refuse is done by using:

:ers
ıg machines
ators
ies

Question ID : 8401605427 Status: Marked For Review Chosen Option : 2
;charge adopted for design of a structure after careful conside ration of id hydrologic factors is known as:
lood
n flood
num probable flood
lum probable flood

Question ID: 8401605406
Status: Marked For Review
Chosen Option: $\mathbf{3}$

## mmonly used landfill sealants for control of gas and leachate movement

sry wells
s with fine silt
ste lining
hat deals with the study of surface water streams is called:
า ology
nology
logy
logy
y statements are related to a contour canal.
sanal does not follow the same contour line along.
on both side
; the area only on one side of it, the other side being at higher elevation.
d normally to contours.
Jrrect statement(s).
(iii)
(i)and (iii)
iv)
i)
particle size distribution curve, if the value of coefficient of uniformity er than 6 and coefficient of curvature (Cc) is between 1 and 3. then it is

sedimentation tanks are also called:
intal flow break up tanks
ittent settling tank
cent type settling tank
uous settling tank

456-2000, in the method of design mix concrete for an RCC structure, what will be the target mean
ete if the mean characteristic strength is 35 MPa with a standard deviation of $6 \mathrm{~N} / \mathrm{mm}^{2}$ ?
VPa
'a

MPa
'a
;ize analysis, a steep grain size distribution curve represents:
; of all sizes
niform grain sizes
uniform grain sizes
sizes from two representative fractions
a test pit for a plate load test is:
s the width of the plate
s the width of the plate
es the width of the plate
nes the width of the plate

slogram of forces shown in the figure, the expression for magnitude of resultant $(R)$ is given by:
are forces acting at a point O
een two forces

Coder
$\sqrt{P^{2}+Q^{2}+2 P Q \cos \propto}$
$\sqrt{P+Q+2 P Q \sin \alpha}$
$\sqrt{P+Q+2 P Q \cos \alpha}$
$\sqrt{P^{2}+Q^{2}+2 P Q \sin \propto}$
ctor of a standard hollow circular pipe section is

eeting at a jo int is always:
!r than one
to one
than one
to zero
enon of strength loss - strength gain with no change in volume or water
illed:
sand
ivity
ropy
action
following is a Bazin's formula for discharge 'Q' over a rectangular we ir I height of water ' $h$ '?
$\frac{2}{3} C_{d} \sqrt{2 g L} H^{\frac{3}{2}}$
$=L \times B \sqrt{2 g} H^{\frac{3}{2}}$
: $C_{d} \sqrt{2 g} H$
$=\frac{2}{3} C_{d} L \sqrt{2 g} H^{\frac{3}{2}}$


[^0]IS 800-2007,the nominal shear capacity of M20 bolt of grade 4.6 with one jassing through bolt shank and one shear plane passing through threaded

4 kN
kN
kN
2 kN
re occurs in which environment condition?
rate environment
ed environment
atic environment
adiabatic environment
leriod for the electric motor and pumps of a water supply scheme is:
ars
ars
rS
ars

following are NOT kinds of errors?
kes
ensations
lations
epancies

## ss matrix method of structure analys is, the quantity taken as redundant is:

otation and deflection
गn
eflection
tion

## sandy soil, the value of N is:

50
)
30
1

in children is observed when the fluoride level in drinking water is:
han $1.0 \mathrm{mg} / 1$
en $1 \mathrm{mg} / \mathrm{l}$ to $2 \mathrm{mg} / \mathrm{l}$
an $0.2 \mathrm{mg} / \mathrm{l}$
than $2 \mathrm{mg} / \mathrm{l}$
ensitivity greater than 16 is known as:
clay
sensitive
:ive
in is the method adopted for removing $\qquad$ from water.
lved oxygen
בs, debris and wood
ss and sulphates
Ived solids
sal smog is brown in colour so it is called 'brown air smog'. This brown
! to the presence of:
!
. $\mathrm{H}_{2} \mathrm{SO}_{4}$
x


If a straight glacier fall, the minimum clear length of the crest for $>3 \mathrm{~m}$ drop is $\qquad$ -.
o for soft sensitive clay soil is:
$1 \%$
$1 \%$
) $\%$
$1 \%$
$\mathrm{mk} 1 \mathrm{~m} \times 3 \mathrm{~m}$ lies in a vertical plane in water. Calculate the total pressure on the plane surface.
5 kN
) kN
) kN
) kN
vater is removed from an evaporation pan of diameter 2 m and $s$ rainfall measurement is 9 mm , then what is the evaporation?
nm
nm
m
nm

ssure (Pab) is calculate d by the equation:
nospheric pressure + Gauge pressure
Ige pressure-Atmospheric pressure
aospheric pressure -Gauge pressure
aospheric pressure + Gauge pressure + Datum pressure
;ible compressive stress for concrete in bending is $\mathrm{C} \mathrm{kg} / \mathrm{m}^{2}$, the modular ratio is:
10
$-$

10
$-$

10
-

0
cceptable no ise level for suburban areas, as per IS code 4954-1968?
; 5 db
40 db
30 db
30 db

$\downarrow \sigma \cos \theta / \mathrm{w} \alpha$
lv/d
t adjustment of levels, two peg test is done to correct:
f collimation
ube
hair ring and line of collimation
il yie Ids a maximum dry density of $1.8 \mathrm{~g} / \mathrm{cc}$ during a standard proctor test. $c$ gravity is 2.65 , then what would be its void ratio? Take density of water

Iture correction applied to hydrometer reading is:
$s$ negative
positive or negative
s positive
॥
flection at the free end of the cantilever beam of length (L) subjected to uniformly varying load (W per own in the figure is:
ural rigidity.


3/8EI
del of a spillway, the velocity and discharge are $3 \mathrm{~m} / \mathrm{s}$. The corresponding e prototype is:
m/s
$\mathrm{m} / \mathrm{s}$
n/s

## contraflexure is the point where:

g moment is maximum
ig moment is minimum
force is zero
ng moment changes sign
:ity, the meteorological parameter is measured by which instrument?
leter
graph
ometer
eter
rpose of survey is the scale of $1 \mathrm{~cm}=5 \mathrm{~m}$ to 0.5 km used?
stral maps
on surveys
ng sites
planning

$\mathrm{A}_{1} \mathrm{Q}_{1}=\rho_{2} \mathrm{~A}_{2} \mathrm{Q}_{2}$
$\left.\mathrm{A}_{1} \mathrm{~V}_{1}\right]^{2}=\left[\rho_{2} \mathrm{~A}_{2} \mathrm{~V}_{2}\right]^{2}$
$\mathrm{A}_{1} \mathrm{~V}_{1}=\rho_{2} \mathrm{~A}_{2} \mathrm{~V}_{2}$
${ }_{1}=\rho_{2} V_{2}$

## : test is used to determine:

ess of water
al chloride in water
ades in water
en in water

I of water supply pipe networks, dead end type of distribution network is is:
ystem
system
ystem
on system
he interior angles in a closed traverse is equal to:
+5 )
-1)
+4)
「-4)

ar failure occurs in:
s sand
dense sand and stiff clay
lay
sand
sand above water table was found to have a natural moisture content of
it weight of $18.84 \mathrm{kN} / \mathrm{m} 3$. Laboratory tests on a dried sample indicated
and 0.85 for minimum and maximum void ratios, respectively for densest
states. Calculate the degree of saturation and the relative density.
2.65
\%, 67.74\% ,
\%, 75.14\%
\%, 60.14\%
\% , 70.14\%
'ave length of Thermal-IR in electromagnetic spectrum of sunlight?
to $1.00 \mu \mathrm{~m}$
to $0.4 \mu \mathrm{~m}$
, $5 \mu \mathrm{~m}$
to $30 \mu \mathrm{~m}$
nent is correct for design of beams.
ral axis passes through the centroid of the beam section when material re's law.
I section is subjected tolongitudinal force.
nents $[A]$ and $[B]$ both are false nents $[A]$ and $[B]$ both are true nent $[A]$ is false,but $[B]$ is true nent $[A]$ is true,but $[B]$ is false

aused by which industry?
e industry
! crushers
industry
ery industry

IS classification system (plasticity chart), soil that falls above A-line and limit of 40 is:

## tabilisation is:

on of cementing material to soils
on of limes to soils
g of two or more types of natural soils
on of chemicals to soils
increase of pressure in a vertically do wnward direction is equal to weight e fluid at that point', is stated by:
static law
I's law
nedes' Principle
rmal law

privy
jit
jool
let

## soil samples are required for:

slidation test
ic gravity test
:age limit test
meter test
pes of EDM instruments are there based on wavelength?
tof inertia of a hollow circular section about its centroidal axis is:
iameter of outer circle
of inner circle
$\left.{ }^{4}+D^{4}\right)$
64
$1^{4}-d^{4}$ )

$\left.r^{3}-d^{3}\right)$
12
capacity of coarse sand, compact and dry, according to National Building
$\exists$ (2016) is:
$\mathrm{kN} / \mathrm{m}^{2}$
$\mathrm{kN} / \mathrm{m}^{2}$
$\mathrm{kN} / \mathrm{m}^{2}$
$\mathrm{kN} / \mathrm{m}^{2}$

## dation, the ne gative skin friction is developed by:

action of soil
d movement of soil
ward movement of soil
cement of soil

India's environmental impact assessment notification 2006,cate gory-B d environmental clearance from the:

Environment Impact Assessment Authority
Territory Pollution Control Committee
ry of Environment and Forest

between tangential velocity ( $v$ ) and radius ( $r$ ) is given by:
constant for forced vortex
$r=$ constant for forced vortex
constant for free vortex
$\wedge_{2}=$ constant for free vortex

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total depth of water for wheat crop if the duty at field is 700 ha/cumec
period is 360days.
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itable section for a steel column is:
sLB and ISMB
erforation of fine screen used in the removal of suspended solid from

1 mm
3.5 cm

5 mm
3 mm

easured by using a wrong scale, then the true correct length of the line is
ect length $=\frac{R F \text { of wrong scale }}{R F \text { of correct scale }} \times$ Measured area
?ct length $=\frac{R F \text { of wrong scale }}{R F \text { of correct scale }}$
ect length $=\left(\frac{R F \text { of wrong scale }}{R F \text { of correct scale }}\right)^{2} \times$ Measured length
ect length $=\frac{R F \text { of wrong scale }}{R F \text { of correct scale }} \times$ Measured length

Ition of evaporation potential of catchment areas, the duration of
I day is recorded by which instrument?
line meter
ine duration recorder
meter
nine recorder
following processes is adopted for the conversion of salt water into
ion
ılation
ination
ng
:ion constant of impounding reservoirs varies between:

6
1
5


1


[^0]:    2000 , which grade of concrete has a tensile stress of $3.2 \mathrm{~N} / \mathrm{mm}^{2}$ under limit state method?

