



HPCL Engineer

Previous Year Paper (Civil) 04 Nov 2022



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ŀ	4P	CL	-0 1	st	&	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 _____ a new bicycle very soon.

Ans

- 1. will have
- 2. are having
- 3. have
- 4. were having

Question ID: 8401605319 Status: Answered

Chosen Option : 1

Q.2 Select the most appropriate synonym of the given word.

Profligate

Ans

- 1. Prudent
- 2. Judicious
- 3. Stingy
- 4. Extravagant

Question ID: 8401605311 Status: Answered

Chosen Option: 4

 ${\tt Q.3~Select\,the\,most\,appropriate\,synonym\,of\,the\,given\,word.}$

Sultry

Ans

- 1. Humid
- 2. Dry
- 3. Cold
- 4. Freezing

Question ID: 8401605309

Status : Marked For Review

Chosen Option : ${\bf 2}$





2. destroyed, rebuild 3. destroy, rebuilt 4. destroying, rebuild Question ID: 8401605318 Status: Answered Chosen Option: 1 Q.5 Select the most appropriate option to fill in the blank. The children cricket in the park when their mother came to pick them up. 1. play 2. played 3. had been playing 4. had played Question ID: 8401605320 Status: Answered Chosen Option: 3 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 chellanges / at the G-20 education ministers' meeting. 1. No error 2. at the G-20 education ministers' meeting. 3. by different countries to address common chellanges 4. The Education Minister called for collaborative efforts Question ID: 8401605315 Status: Answered Chosen Option: 3				
the Parmara King Bhoja of Malwa between 1026 and 1042. Ans 1. destroyed, rebuild 2. destroyed, rebuilding 3. destroy, rebuild 4. destroying, rebuild 4. destroying, rebuild 4. destroying, rebuild 4. destroying, rebuild 6. Question ID : 8401605318 Status : Answered Chosen Option : 1 Q.5 Select the most appropriate option to fill in the blank. The children cricket in the park when their mother came to pick them up. Ans 1. play 2. played 3. had been playing 4. had played 6. Question ID : 8401605320 Status : Answered Chosen Option : 3 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 chellanges / at the 6-20 education ministers' meeting. 3. by different countries to address common chellanges 4. The Education Minister called for collaborative efforts 9. Question ID : 8401605315 Status : Answered Chosen Option : 3 Q.7 Select the most appropriate meaning of the given idiom. Nutry as a fruitcake 1. Careful 2. Composed 2. Crazy 4. Contented 9. Question ID : 8401605313	Q.4	Select the most appropriate option to fill in the blanks.		
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2. Composed 3. Crazy 4. Contented Question ID: 8401605313		Nutty as a fruitcake		
3. Crazy 4. Contented Question ID: 8401605313	Ans	1. Careful		
4. Contented Question ID: 8401605313		2. Composed		
Question ID: 8401605313		3. Crazy		
		4. Contented		





of a paragraph are given below in jumbled order. Arrange the sentences in order 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.

nat Ivan IV, better known as Ivan the Terrible, who lived from 1530 to low hid the library's texts.

of the Grand Duchy of Moscow supposedly had built the library by 1518.

Question ID: 8401605316

Status : **Answered**

Chosen Option : 4

ost appropriate ANTONYM of the given word.

ınt

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

.....

places

ives

omes kittens

Question ID: 8401605312

Status : Answered

Chosen Option: 3

ost appropriate synonym of the given word.

'n





ost appropriate option to fill in the blank.	
you a account of my travels in Eastern Europe.	
complete	
omplete	
complete	
lete	
	Question ID: 8401605323
	Status : Answered Chosen Option : 4
	Onoscii Option . 4
ption that is NOT an antonym of another word by way of	adding the prefix
propriate	
have	
prehend	
able	
able	
	Question ID : 8401605308
	Status : Answered
	Chosen Option : 4
ost appropriate option to fill in the blanks.	
	o Europe is a
bate.	Europe is a
d, material	
ed, thing	
element	
natter	
	Question ID : 8401605317
	Status : Answered Chosen Option : 2
	Onosch Option . 2
orrectly spelt word to fill in the blank.	
rowd went into around a popular film-star.	
ya	
ria	
ria	
i <mark>a</mark>	

Question ID: 8401605314 Status: Answered

Chosen Option : ${\bf 3}$





ost appropriate option to fill in the blank.

at Aurobindo College for the last seven years.

een teaching

t

es

ıught

Question ID: 8401605321

Status : **Answered**

Chosen Option : ${\bf 1}$

ost appropriate option to fill in the blank.

ily jumps over the wall that separates their compound ____ ours.

Question ID: 8401605322

Status : **Answered**

Chosen Option: 1

e Aptitude

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

Adda

Question ID: 8401605348

Status: Answered

Chosen Option : 2

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.

Question ID: 8401605324

Status : Answered

01 0 11 4





n, winning candidate got 70% of valid votes. If 15% of votes are invalid and 100 voters did not cast their votes, then the number of votes received by ndidate is:

2

50

)

3

Question ID: 8401605330

Status: Answered

Chosen Option: 3

different ways can the letters of the word ABSENTEE be arranged?

Question ID: 8401605346

Status : **Answered**

Chosen Option: 4

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:

Question ID: 8401605329

Status: Marked For Review





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

Section	English	Maths	Science
200	63	65	55
	45	66	58
	62	54	67
	49	98	73

Question ID: 8401605344

Status : **Answered**

Chosen Option : 1

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:



Question ID: 8401605328

Status : Answered

Chosen Option: 3

sited a certain amount in the bank for 10 years, after which the amount is ${\bf p}$ rate of interest is:

Question ID: 8401605336

Status: Answered





roots of $\frac{6}{x} - \frac{2}{x-1} - \frac{1}{x-2} = 0$.

}

Question ID : **8401605352** Status : **Answered**

Chosen Option: 4

ng together and then ring at intervals of 3 seconds, 4 seconds, 6 seconds is, respectively. After what interval (in seconds) will the bells again ring

Question ID : **8401605325** Status : **Answered**

Chosen Option: 4

er bought 12 dozen eggs at the rate of <mark>₹4 per</mark> egg. <mark>Durin</mark>g transit, 18 eggs . He sold the remaining eggs at the rate of ₹5 per egg. Find his profit (in

Adda

Question ID: 8401605331 Status: Answered

Chosen Option: 3

er weighs 900 g instead of 1 kg. By selling 5 kg sugar at the cost of ₹18 ofit earned is:

Question ID: 8401605332

Status : **Answered**





 $_{\rm I}$ train is running at a speed of 64 km/h. In how much time (in seconds) will $_{\rm I}$ m long train moving at a speed of 80 km/h in the opposite direction?

Question ID: 8401605357

Status : **Answered**

Chosen Option : 3

f 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:

Question ID: 8401605339 Status: Answered

Chosen Option: 3

s are tossed, then the probability of getting at least two heads is:

Adda 247

Question ID : 8401605350

Status : Answered

Chosen Option: 3

rer 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?

Question ID: 8401605333

Status : Marked For Review





sted ₹10,000 and ₹12,000 in a bank that offers 5% compound interest. The finterest earned by them after two years is:

Question ID: 8401605337

Status : **Answered**

Chosen Option: 4

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 km/h, then in how an the boat cover 81 km in still water?

Question ID: 8401605341

Status : **Not Attempted and Marked For Review**

Chosen Option: --

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

Question ID: 8401605335 Status: Answered

Chosen Option: 2

two numbers is 4:5 and their LCM is 220, then the second number is:

Question ID : 8401605334

Status : **Answered**





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?

Question ID: 8401605342 Status: Answered

Chosen Option: 1

different ways can the letters of the word POLICE be arranged so that the $\ensuremath{\text{rs}}$ come together?

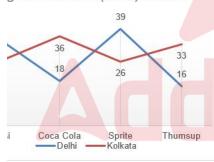
Question ID: 8401605347

Status : **Answered**

Chosen Option : 4

ren line graph and answer the question that follows.

ge of drinks in (liters) 2 cities



247

Kolkata, what is the percentage increase of consumption of Sprite in Delhi?

Question ID: 8401605345 Status: Answered





ce area of a right circular cone of slant height 17 cm is 138 π cm². Find the height (in cm).

Question ID: 8401605353 Status: Answered

Chosen Option : 2

:wo tables and three chairs is ₹540 while that of two tables and one chair is ; the cost of five chairs?

Question ID: 8401605349 Status: Answered

Chosen Option: 3

ngineer travels to his office at a speed of 72 km/h and returns at a speed 'he average speed of his whole journey is:

⊣/h

ı/h

ı/h

1/h

Question ID: 8401605327

Status: Marked For Review

Chosen Option: 3

igent of the two touching circles $x^2 + y^2 + 6x - 2y + 7 = 0$ and $x^2 + y^2 - 4x + 7y - 9 = 0$ is:

$$x - 9y - 16 = 0$$

$$+9y - 16 = 0$$

$$c + 9y + 16 = 0$$

$$x - 9y + 16 = 0$$

Question ID: 8401605355

Status: Answered





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

Question ID: 8401605338

Status : Answered

Chosen Option: 4

oticed by a policeman. The thief started running at 9 km/h and the nases him at 11 km/h. If the distance between them is 200 m, how much policeman take to catch the thief?

Question ID: 8401605340

Status : **Answered**

Chosen Option: 2

 $\sqrt{2} \times 4\sqrt{34 - 24\sqrt{2}}4 = k$, then the value of k lies between:

ıd 2

id 3

1.5

2.5

Question ID: 8401605356 Status: Answered

Chosen Option: 2

stween the outside and inside surface of a 15 cm long cylindrical metallic pipe is 330 π cm². If the pipe ${\rm cm}^3$ of metal, find the outer radius of the pipe (in cm).

Question ID: 8401605354

Status: Answered



24 students, the average weight of 18 boys is 28 and the average weight pirls is 29. The average weight of the girls is:

Question ID: 8401605326

Status: Marked For Review

Chosen Option: 2

values of z will the following equation have equal roots?

$$x^2 + (z+1)x + 1 = 0$$

Question ID: 8401605351

Status : **Answered**

Chosen Option: 2

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?

Adda

Question ID: 8401605343 Status: Answered

Chosen Option: 3

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 I lives ninety-five m away from Vivran. What is the approximate distance to two decimal places) between Mrinal and Abhimanyu?

m

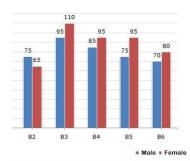
m

m

m



ale 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

Question ID: 8401605390 Status: Answered

Chosen Option : 2

pair which is odd from the following options.

r: Apathetic

ป : Trivial

cule: Astronomical

ient : Remote

Question ID: 8401605384

Status : **Answered**

Chosen Option: 1

I walking 17 m towards 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?

ı- east

·west

-west

east

Question ID: 8401605378

Status : Answered





iven below 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

Question ID: 8401605388

Status : **Answered**

Chosen Option: 1

onth falls on Friday, then what will be the day, 2 days after 2nd of the

day

day

lay

Question ID: 8401605360 Status: Answered

Chosen Option: 1

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 11 than Anay. Prisha didn't score more than Ryan. Study the above 11 Indicate the option that is definitely incorrect.

scored more than Anay.

scored more than Izaan.

didn't score less than Ryan.

didn't score less than Prisha.

Question ID: 8401605367

Status : Answered

Chosen Option: 3

er will come next in the series?

i, 253, 277, ?

Question ID: 8401605382

Status : **Answered**





ption that is related to the third alphanumeric cluster in the same way as alphanumeric cluster is related to the first alphanumeric cluster.

FK13:?

Question ID: 8401605383

Status : **Answered**

Chosen Option: 4

er will come next in the series?

I, 565, 613, ?

Question ID: 8401605385

Status : **Answered**

Chosen Option: 2

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?

nal grandson

w

nal grandson

Question ID: 8401605380

Status: Answered

Chosen Option: 4

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 ra 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.

Question ID: 8401605366





ode 'WIDEN' is coded as 'BBIXS' then how will 'PAGER' be coded in that W /X ίX W Question ID: 8401605376 Status: Answered Chosen Option : 1 ne 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 Question ID: 8401605372 Status: AnsweredChosen Option : ${\bf 4}$ lowing arrangement of letters and answer the question that follows: **LOYUKNWEIQGU** wels are there in these arrangements which are placed before a Question ID: 8401605373 Status: Answered Chosen Option : 2 ption that will come in the place of question mark in the following word L, CAH, VID, ?





Daniel and Noah started walking from the same point. Noah started rds east and after 25m turns right and walks 10m. He then again turns right 1. Next he turns left and walks 10 m. Meanwhile Daniel started walking h and after 10m he turns left and walks 6m. He now turns left again, walks 11m then turns right and walks 4m. Now he turns left and walks 11m. At last s left and walks 4m. What is the direction of Daniel and Noah with respect g point respectively?

-east, South-west

ı-west, South-east

east. North-west

west, North-east

Question ID: 8401605379 Status: Answered

Chosen Option: 4

Zoya, Jivin, Liya, Shyla, Manav, Parv, Shaanu and Navi are sitting around 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 immediate neighbour of either Manav or Jivin. Shaanu is liate left of Zoya. Navi is third to the right of Zoya. Who is sitting second Navi?

۷

Question ID: 8401605359

Status : **Answered** Chosen Option : **3**

er will come next in the series?

), 1148, 2280, ?

Question ID : **8401605386**

Status : Answered

Chosen Option: 4

x C, Box Q, Box P, Box M, Box T and Box L are kept one over the other not n the same order. Box P is two places above of Box T. 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. **Jukta's paternal grandfather. If Prachi has only 2 children, then how is d to Namit?

ŀ٢

in

nal aunt

ıal aunt

Question ID: 8401605381

Status: Answered

Chosen Option: 1

ode 'LOVED' is coded as 'FSPIX' then how will 'SHADE' be coded in that

Υ

ΙA

Α

IY

Question ID: 8401605375

Status : **Answered**

Chosen Option: 4

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

X, MAG, JWP, ?

Adda 247

Question ID: 8401605371

Status : Answered





ing table and answer the questions.

Marks	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?

%

%

%

%

Question ID: 8401605391

Status : **Answered**

Chosen Option: 4

four group of letters are alike in a certain way, except one. Choose the

Question ID: 8401605374

Status: Answered

Chosen Option: 3

Ava, Jade, Jacob, Stella, 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 loors below Elias. No one lives above Jacob who lives five floors above ives on the floor immediately below Austin. Sofia lives on some floor Who lives two floors above Jade?

ì

Question ID: 8401605363

Status : **Answered**





arun, Vibhor, Avneet, Prabha, Rohan and Diya are sitting in a row facing th. Tarun is towards left of Vibhor. Prabha is second to the left of Diya. Diya ween 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?

et

Question ID: 8401605358 Status: Answered

Chosen Option: 2

imit, Kaira, Ishir, Adya, Tashi and Ramona are sitting in a park. Adya is not 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 option that is definitely incorrect.

is not younger than Kaira

na is older than Kaira

is younger than Ishir

is not older than Tashi

Question ID: 8401605368 Status: Answered

Chosen Option: 3

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

137' be coded in that language?

⟨ZG

ZΒ

NO ZO

Question ID: 8401605377

Status : **Answered**

Chosen Option: 3

ked 7th from the top and Saira is ranked 6th from the bottom in an exam. xam their position got exchanged and Saira was ranked 15th from the many students in total gave the exams?

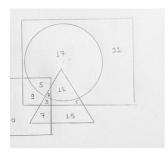
ıdents

ıdents

.



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.



Question ID: 8401605365

Status : **Answered** Chosen Option : **4**

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 ÷ 29

Addal

Question ID: 8401605389

Status: Answered

Chosen Option: 1

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

72, N 87, I 107 ,?

Question ID: 8401605369 Status: Answered





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.

conclusion II follows

conclusions I and II follows

conclusion I follows

er of the conclusions follows

Question ID: 8401605364 Status: Answered

Chosen Option : 2

10 wle dge

'ee-fallheight of a hammer in standard penetration test?

Question ID: **8401605442**Status: **Answered**

Chosen Option: 1

esign period for pipe connections to the several treatment units in a scheme?

ars

ars

ars

ars

Question ID: 8401605412 Status: Answered

Chosen Option : 3

/iscometer is used to find the _____ in an experiment.

y of fluid

zient of discharge of fluid

sity of fluid





 \emph{r} triangulation, the maximum triangle closure is:

0

2

Question ID: 8401605470

Status: Marked For Review

Chosen Option: 1

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

point of curve is visible from the intermediate point.
point of curve is not visible from the intermediate point.

nents 1 and 2 are incorrect

nents 1 and 2 are correct

ment 1 is incorrect, but statement 2 is correct

nent 1 is correct, but statement 2 is incorrect

Question ID: 8401605469

Status : **Answered**

Chosen Option: 3

um carrying an external load W with a bent tendon has angle of inclination ' θ ' and prestressed load 'P'. :d load at the centre is:

 $-2P\sin\theta$

-P cos θ

- $P \sin \theta$

- 2P cos θ

Question ID: 8401605473

Status : Answered

Chosen Option: 1

f water is determined by using:

idity meter

ometer

nelometer

ubator

Question ID: 8401605417

Status: Answered





ollowing triangulations, which has the highest order and most precise

s?

order

ı order

order

d order

Question ID: 8401605472

Status: Answered

Chosen Option : 1

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.

Question ID: 8401605449

Status: Answered

Chosen Option : 1

ics of fluid flow, the flow is said to be ideal if:

cous force > 1

cous force $= \infty$

cous force =0

cous force < 1

Question ID: 8401605396

Status : Answered

Chosen Option: 3

following statements in the context of capillary pressure in soils is NOT

ary pressure is more in coarse grained soils

ive stress increases due to capillary zone

is under tension in capillary zone

vater pressure is negative in capillary zone

Question ID: 8401605431

Status : **Answered**





of a quarter circle is:	
	Question ID: 8401605458
	Status: Marked For Review
	Chosen Option : 4
f solid waste refuse is done by using:	
ers	
g machines	
tors	
es	
	Question ID : 8401605427
	Status: Marked For Review
	Chosen Option : 2
charge adopted for design of a structur	re after careful consideration of
d hydrologic factors is known as:	
lood	
n flood	
num probable flood	
um probable flood	
um probable flood	Question ID: 8401605406
um probable flood	Question ID : 8401605406 Status : Marked For Review Chosen Option : 3

ery wells

's with fine silt

ete lining





hat deals with the study of surface water streams is called:

nology

nology

logy

logy

Question ID: 8401605404 Status: Answered

Chosen Option : 3

g statements are related to a contour canal.

canal does not follow the same contour line along. on both side

 ${\rm i}$ the area only on one side of it, the other side being at higher elevation. ${\rm d}$ normally to contours.

prrect statement(s).

(iii)

(i)and (iii)

iv)

i)

Question ID: 8401605407 Status: Answered

Chosen Option : 2

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

graded sand

graded gravel

raded sand

raded gravel

Question ID: 8401605448 Status: Answered

Chosen Option : 3

sedimentation tanks are also called:

ontal flow break up tanks

ittent settling tank

cent type settling tank

uous settling tank

Question ID: 8401605425

Status: Marked For Review





 $456\text{-}2000, in the method of design mix concrete for \ an RCC structure, what will be the target mean} \\$

ete if the mean characteristic strength is 35 MPa with a standard deviation of $6 N/mm^2$?

ИРа

'a

MPa

'a

Question ID: 8401605457 Status: Answered

Chosen Option : 1

size analysis, a steep grain size distribution curve represents:

of all sizes

niform grain sizes

uniform grain sizes

sizes from two representative fractions

Question ID: 8401605434

Status: Answered

Chosen Option : ${\bf 3}$

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

Question ID: 8401605443

Status : Answered





elogram 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



$$\sqrt{P^2 + Q^2 + 2PQ\cos \propto}$$

$$\sqrt{P+Q+2PQsin} \propto$$

$$\sqrt{P+Q+2PQcos} \propto$$

$$\sqrt{P^2 + Q^2 + 2PQsin} \propto$$

Question ID: 8401605459

Status: Answered

Chosen Option : ${\bf 1}$

ctor of a standard hollow circular pipe section is

Question ID: 8401605456

Status: Marked For Review

Chosen Option: 4

nt distribution method, the sum of distribution factors for all the eeting at a joint is always:

r than one

to one

than one

to zero

Question ID: 8401605461

Status : Answered



enon of strength loss — strength gain with no change in volume or water ${\sf Illed}$:

sand

ivity

ropy

action

Question ID: 8401605433

Status : **Answered**

Chosen Option: 3

following is a Bazin's formula for discharge 'Q' over a rectangular weir I height of water 'h'?

$$\frac{2}{3}C_d\sqrt{2gL}H^{\frac{3}{2}}$$

$$: L \times B \sqrt{2g} H^{\frac{3}{2}}$$

$$C_d\sqrt{2g}H$$

$$= \frac{2}{3}C_dL\sqrt{2g}H^{\frac{3}{2}}$$

Question ID: 8401605397

Status : **Answered**

Chosen Option : 4

logical formation that neither contains nor transmits water known as?

er

lude

uge

ard

Question ID: 8401605410

Status: Answered

Chosen Option: 3

2000, which grade of concrete has a tensile stress of 3.2 N/mm² under limit state method?

Ouestion ID : **8401605454**





IS 800-2007,the nominal shear capacity of M20 bolt of grade 4.6 with one bassing through bolt shank and one shear plane passing through threaded

4 kN

kΝ

kN

2 kN

Question ID: 8401605453

Status: Marked For Review

Chosen Option: 4

ne occurs in which environment condition?

rate environment

ed environment

atic environment

adiabatic environment

Question ID: 8401605422

Status: Answered

Chosen Option: 4

period for the electric motor and pumps of a water supply scheme is:

ars

ars

rs

ars

Question ID: 8401605413

Status: Answered

Chosen Option: 1

following are NOT kinds of errors?

kes

ensations

lations

epancies

Question ID: 8401605465

Status: Marked For Review



ive



ss matrix method of structure analysis,the quantity tal	ken as redundant is:
otation and deflection	
n	
eflection	
ion	
	Question ID : 8401605462 Status : Answered
	Chosen Option : 1
andy soil, the value of N is:	
50	
0	
	Question ID : 8401605445 Status : Answered
	Chosen Option : 1
c clayey soils bil	Question ID: 8401605439
	Status : Answered
	Chosen Option : 3
in children is observed when the fluoride level in dring and 1.0 mg/len 1 mg/l to 2 mg/l	inking water is:
an 0.2 mg/l	
han 2 mg/l	
	Question ID : 8401605415 Status : Answered
	. Julius . Allaweleu
	Chosen Option : 2





lved oxygen	or removing from water.
es, debris and wood	
s and sulphates	
ved solids	
	Question ID: 8401605411
	Status: Answered
	Chosen Option : 3
cal smog is brown in colour to the presence of:	so it is called 'brown air smog'.This brown
)	
H SO	
$.H_2SO_4$	
x	
	Question ID: 8401605423
	Status : Answered Chosen Option : 1
	Siloson Spilon 1
s of unseeded domestic w	aste water BOD test, the data used is 6ml of
Oml bottle, initial DO of 8mg/	Question ID: 8401605420 Status: Answered Chosen Option: 4
Oml bottle, initial DO of 8mg/	Question ID: 8401605420 Status: Answered Chosen Option: 4
Oml bottle, initial DO of 8mg/	Question ID: 8401605420 Status: Answered Chosen Option: 4
Oml bottle, initial DO of 8mg/	Question ID: 8401605420 Status: Answered Chosen Option: 4 mum clear length of the crest for >3m drop is
Oml bottle, initial DO of 8mg/	Question ID: 8401605420 Status: Answered Chosen Option: 4





o for soft sensitive clay soil is: 10/0 10/0)% 10/0 Question ID: 8401605446 Status: Answered Chosen Option: 3 $mk\ 1m \times 3m$ lies in a vertical plane in water. Calculate the total pressure on the plane surface. 5 kN) kN) kN) kN Question ID: 8401605395 Status : **Not Attempted and Marked For Review** Chosen Option: -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 Question ID: 8401605405 Status: Answered Chosen Option: 4 ssure (Pab) is calculated by the equation: nospheric pressure + Gauge pressure ige pressure - Atmospheric pressure

nospheric pressure -Gauge pressure

nospheric pressure + Gauge pressure + Datum pressure

Question ID: 8401605394

Status : Answered





III to the second of the secon	
sible compressive stress for concrete in bending	is C kg/m², the modular ratio is:
10	
f	
10	
<u> </u>	
10	
<u>10</u>	
0	
0	
	Question ID : 8401605475
	Status: Answered
	Chosen Option : 1
cceptable noise level for suburban areas, as	per IS code 4954-1968?
i5 db	
40 db 30 db	
30 db	
	Question ID: 8401605428 Status: Answered
	Chosen Option : 2
idia 'd', the capillary rise or fall (h) of a liquid, where surfac	
ation:	e conesion is 6, angle of confact is 6 is
vcosθ/d	
lcosθ/d	
Ι σcosθ∕wα	
lv/d	
	Question ID : 8401605392
	Status : Answered
	Chosen Option : 3
t adjustment of levels, two peg test is done	to correct:
f collimation	
ube	
hair ring and line of collimation	





il yields a maximum dry density of 1.8g/cc during a standard proctor test. c gravity is 2.65, then what would be its void ratio? Take density of water

Question ID : **8401605432** Status : **Answered**

Chosen Option: 4

iture correction applied to hydrometer reading is:

s negative

positive or negative

s positive

πI

Question ID: 8401605447

Status : Answered

Chosen Option: 2

: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.

L

³/48EI

.4/30EI

4/48EI

³/8EI

Question ID: 8401605451

Status: Answered

Chosen Option : 2

m/s

m/s

n/s



${\bf contrafle}\,{\bf xure}\,\,{\bf is}\,\,{\bf the}\,\,{\bf point}\,{\bf where}\colon$

ng moment is maximum

1g moment is minimum

force is zero

ng moment changes sign

Question ID: 8401605455

Status: Answered

Chosen Option: 4

; ity, the meteorological parameter is measured by which instrument?

neter

graph

ometer

eter

Question ID: 8401605403

Status: Answered

Chosen Option : ${\bf 3}$

rpose of survey is the scale of 1cm=5m to 0.5km used?

stral maps

on surveys

ng sites

planning

Question ID: 8401605464

Status: Answered

Chosen Option: 3

ontinuity equation for compressible fluid?

$$A_1Q_1 = \rho_2 A_2 Q_2$$

$$A_1V_1]^2 = [\rho_2 A_2 V_2]^2$$

$$A_1V_1 = \rho_2 A_2 V_2$$

$$V_1 = \rho_2 V_2$$

Question ID: 8401605400

Status : Answered





test is used to determine:

ess of water

al chloride in water

ades in water

en in water

Question ID: 8401605418

Status : **Answered** Chosen Option : **2**

ı of water supply pipe networks, dead end type of distribution network is

ıs:

ystem

system

ystem

on system

Question ID: 8401605416

Status: Answered

Chosen Option: 1

he interior angles in a closed traverse is equal to:

+5)

-1)

+4)

(1 - 4)

Question ID: 8401605466

Status : **Answered**

Chosen Option: 4

ar failure occurs in:

sand

dense sand and stiff clay

lay

sand

Question ID: 8401605438

Status : **Answered**





sand above water table was found to have a natural moisture content of it weight of 18.84kN/m3. Laboratory tests on a dried sample indicated and 0.85for 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%

Question ID: 8401605471

Status : **Answered**

Chosen Option : 2

vavelength of Thermal-IR in electromagnetic spectrum of sunlight?

to 1.00 μm

to 0.4 μm

) 5 μm

to 30 μm

Question ID: 8401605468

Status : **Answered**

Chosen Option: 2

nent is correct for design of beams.

ral axis passes through the centroid of the beam section when material ce's law.

ı 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

ment [A] is true, but [B] is false

Question ID: 8401605452

Status : Answered

Chosen Option: 4

aused by which industry?

e industry

crushers

industry

ery industry

Question ID: 8401605421

Ctatus · Anguarad





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

Question ID: 8401605435 Status: Answered

Chosen Option : ${\bf 3}$

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

Question ID: 8401605440 Status: Answered

Chosen Option: 3

increase of pressure in a vertically downward direction is equal to weight e fluid at that point', is stated by:

static law

l's law

nedes' Principle

ermal law

Question ID: 8401605393

Status : Answered

Chosen Option: 1

onomical and hygienic rural privy is:

privy

oit

looc

et

Question ID: 8401605430

Status: Answered



soil samples are required for:

olidation test

ic gravity test

age limit test

meter test

Question ID: 8401605436

Status: Answered

Chosen Option: 1

pes of EDM instruments are there based on wavelength?

Question ID: 8401605476

Status: Answered

Chosen Option: 4

t of inertia of a hollow circular section about its centroidal axis is:

iameter of outer circle of inner circle

$$\frac{^4+D^4)}{64}$$

$$\frac{(d^4-d^4)}{64}$$

$$\frac{^4+D^4)}{32}$$

$$\frac{3^3-d^3)}{12}$$

Question ID: 8401605460

Status: Answered





capacity of coarse sand, compact and dry, according to National Building a (2016) is:

 kN/m^2

 kN/m^2

kN/m²

 kN/m^2

Question ID: 8401605444

Status: Answered

Chosen Option: 2

dation, the negative skin friction is developed by:

action of soil

d movement of soil

ward movement of soil

cement of soil

Question ID: 8401605437

Status: Answered

Chosen Option: 3

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

Environment Impact Assessment Authority

Territory Pollution Control Committee

ry of Environment and Forest

al Environment Impact Assessment Authority

Question ID: 8401605429

Status: Answered

Chosen Option: 4

between tangential velocity (v) and radius (r) is given by:

constant for forced vortex

r = constant for forced vortex

constant for free vortex

 2 = constant for free vortex

Question ID: 8401605401

Status: Answered

Chacan Ontion · 1





total depth of water for wheat crop if the duty at field is 700 ha/cumec period is 360days.

n

n

Π

n

Question ID: 8401605408

Status : **Answered**

Chosen Option: 2

itable section for a steel column is:

SLB and ISMB

Question ID: 8401605474

Status: Answered

Chosen Option : $\boldsymbol{2}$

erforation of fine screen used in the rem<mark>oval of susp</mark>ended solid from

1mm

3.5cm

5mm

3mm

Question ID: 8401605426

Status : **Answered**

Chosen Option: 3

easured by using a wrong scale, then the true correct length of the line is

ect length =
$$\frac{RF \ of \ wrong \ scale}{RF \ of \ correct \ scale} \times Measured \ area$$

$$\text{ect length} = \left(\frac{\textit{RF of wrong scale}}{\textit{RF of correct scale}}\right)^2 \times \text{Measured length}$$

$$\text{ect length} = \frac{\textit{RF of wrong scale}}{\textit{RF of correct scale}} \times \text{Measured length}$$

Question ID: 8401605463 Status: Answered





ition of evaporation potential of catchment areas, the duration of ι day is recorded by which instrument?

iine meter

nine duration recorder

meter

hine recorder

Question ID: 8401605402

Status: Answered

Chosen Option : ${\bf 2}$

following processes is adopted for the conversion of salt water into

ion

ılation

ination

ng

Question ID: 8401605414

Status: Answered

Chosen Option : 3

tion constant of impounding reservoirs varies between:

6

1

.5

Question ID: 8401605424

Status : **Answered**

Chosen Option: 4

ent of friction is ____ for ideal smooth surfaces like glass.

1

Question ID: 8401605450

Status: Answered