

# **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 \_\_\_\_\_ 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 :  ${\bf 2}$ 

Į.4	Select the most appropriate option to fill in the blanks.	
	After the Somnath temple was by Mahmud Gazni in 1025, it the Parmara King Bhoja of Malwa between 1026 and 1042.	was by
ns	1. destroyed, rebuilt	
	2. destroyed, rebuilding	
	3. destroy, rebuilt	
	4. destroying, rebuild	
	(	
		Question ID : <b>8401605318</b> Status : <b>Answered</b>
		Chosen Option: 1
.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.
ns	1. play	
	2. played	
	3. had been playing	
	4. had played	
		Outstier ID - 040450F200
		Question ID : <b>8401605320</b> Status : <b>Answered</b>
		Chosen Option : 3
	error. Select the part that contains the error from the given options any error, mark 'No error' as your answer.  The Education Minister called for collaborative efforts / by different address common chellanges / at the G-20 education ministers' mee	countries to
ns	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 : <b>Answered</b> Chosen Option : <b>3</b>
		onoscii opiion . S
.7	Select the most appropriate meaning of the given idiom.	
	Nutty as a fruitcake	
ns	1. Careful	
	2. Composed	
	3. Crazy	
	4. Contented	
	4. Contented	0 11 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	4. Contented	Question ID : <b>8401605313</b> Status : <b>Answered</b>

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

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 :  ${\bf 4}$ 

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.

ost appropriate option to fill in the blank.	
you a account of my travels in Eastern Europe.	
complete	
omplete	
complete	
lete	
	Question ID : <b>8401605323</b>
	Status : <b>Answered</b> Chosen Option : <b>4</b>
	onoscii option. 4
ption that is NOT an antonym of another word by way of	adding the prefix
propriate	
have	
prehend	
able	
	Question ID: 8401605308
	Status : <b>Answered</b>
	Chosen Option : 4
ost appropriate option to fill in the blanks.	
	Europe is a
bate.  d, material	
ed, thing	
element	
natter	
	Ouestion ID : 8401605317
	Status : Answered
	Chosen Option : 2
orrectly spelt word to fill in the blank.	
rowd went into around a popular film-star. ya	
ria	
ria	
ia	
	Question ID: 8401605314
	Status : <b>Answered</b>

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 : 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:



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

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: 50 ) 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 Chosen Option: 3

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** 

Chosen Option :  ${\bf 1}$ 

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 ₹4 per egg. During transit, 18 eggs . He sold the remaining eggs at the rate of ₹5 per egg. Find his profit (in



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 1 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

Adda

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** 

Chosen Option :  $\boldsymbol{2}$ 

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

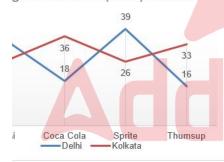
different ways can the letters of the word POLICE be arranged so that the  $\ensuremath{\text{rs}}$  come together?

Question ID: 8401605347
Status: Answered

Chosen Option : 4

ven line graph and answer the question that follows.

ge of drinks in (liters) 2 cities



a 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  $\pi$  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:

ı/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

ıd 3

1.52.5

Adda

Question ID: 8401605356

Status : Answered

Chosen Option: 2

:tween the outside and inside surface of a 15 cm long cylindrical metallic pipe is 330  $\pi$  cm<sup>2</sup>. If the pipe :m<sup>3</sup> 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 jirls 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?



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

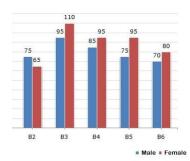
m

m

m

m

1ale 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

ıl : Trivial

cule: Astronomical

ıent : 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 nd choose 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

W	
	Question ID : <b>8401605376</b>
	Status: Answered
	Chosen Option : 1
e word 'EXPERIENCE' are rearranged in the alphabetiare there which are in the same place as in the original	cal order, then how al sequence of the
	Question ID : 8401605372 Status : Answered
	Chosen Option : 4
	ad before a
OYUKNWEIQGU wels are there in these arrangements which are place	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
	Question ID: 8401605373 Status: Answered Chosen Option: 2  e following word
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2
tion that will come in the place of question mark in the	Question ID: 8401605373 Status: Answered Chosen Option: 2  e following word

ode 'WIDEN' is coded as 'BBIXS' then how will 'PAGER' be coded in that

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?

٧

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?

er

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

γ

ΙA

IA

ľ

Question ID: 8401605375 Status: Answered

Chosen Option: 4

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

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?

%

0/\_

%

%

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 ors 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 :  ${f 2}$ 

imit, Kaira, Ishir, Adya, Tashi and Ramona are sitting in a park. Adya is not Raira. 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

ŒΒ

NO ZO

Question ID: 8401605377

Status : Answered

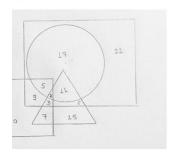
Chosen Option: 3

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

 $\label{eq:ption} \mbox{ption that will come in the place of question mark in the following series.}$ 

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?

) rc

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

r triangulation, the maximum triangle closure is:

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 ' $\theta$ ' and prestressed load 'P'. :d load at the centre is:

- $-2P\sin\theta$
- -Pcosθ
- $P \sin \theta$
- 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 :  ${\bf 1}$ 

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

l of a quarter circle is: Question ID: 8401605458 Status: Marked For Review Chosen Option: 4 of solid waste refuse is done by using: ng machines ators es Question ID: 8401605427 Status : Marked For ReviewChosen Option: 2 scharge adopted for design of a structure after careful consideration of id hydrologic factors is known as: lood n flood num probable flood ıum probable flood Question ID: 8401605406 Status: Marked For Review Chosen Option: 3 mmonly used landfill sealants for control of gas and leachate movement ery wells 's with fine silt ete lining

hat deals with the study of surface water streams is called:
nology
nology
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  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

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

prrect statement(s).

(iii)

logy

(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

dda 247

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

456-2000, in the method of design mix concrete for an RCC structure, what will be the target mean ete if the mean characteristic strength is 35MPa with a standard deviation of 6 N/mm<sup>2</sup>? ИРа 'a MPa 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: AnsweredChosen 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** Chosen Option: 3

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



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

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

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

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

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  ${\sf Ille}\, {\sf d} :$ 

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/mm<sup>2</sup> under limit state method?

Ouestion ID : 8401605454

IS 800-2007,the nominal shear capacity of M20 bolt of grade 4.6 with one passing through bolt shank and one shear plane passing through threaded 4 kN kNkΝ 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 Chosen Option: 4

```
ss matrix method of structure analysis,<br/>the quantity taken as redundant is:  \\
otation and deflection
วท
eflection
tion
                                                                        Question ID: 8401605462
                                                                             Status: Answered
                                                                     Chosen Option: 1
sandy soil, the value of N is:
50
)
30
                                                                        Question ID: 8401605445
                                                                             Status: Answered
                                                                     Chosen Option : {\bf 1}
ation is very effective in treating:
c clayey soils
oil
                                                                        Question ID: 8401605439
                                                                             Status: Answered
                                                                     Chosen Option: 3
in children is observed when the fluoride level in drinking water is:
han 1.0 mg/l
en 1 mg/l to 2 mg/l
nan 0.2 mg/l
than 2 mg/l
                                                                        Question ID: 8401605415
                                                                             Status: Answered
                                                                     Chosen Option : 2
ensitivity greater than 16 is known as:
clay
sensitive
```

ive

) n is the method adopted for removing \_\_\_\_ from water. lved oxygen es, debris and wood es and sulphates lved solids Question ID: 8401605411 Status: Answered Chosen Option: 3 cal smog is brown in colour so it is called 'brown air smog'. This brown to the presence of:  $.H_2SO_4$ X Question ID: 8401605423 Status: AnsweredChosen Option : 1 is of unseeded domestic waste water BOD test, the data used is 6ml of Oml bottle, initial DO of 8mg/l and 5 day DO is 4mg/l. Compute 5day BOD of ıg/l ıg/l ıg/l ng/l Question ID: 8401605420 Status: Answered Chosen Option: 4 of a straight glacier fall, the minimum clear length of the crest for >3m drop is \_\_\_\_\_. Question ID: 8401605409 Status: Marked For Review Chosen Option : 1

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 Chosen Option: 1

sible compressive stress for concrete	in bending is $C \text{ kg/m}^2$ , the modular ratio is:
10	
<u>.</u>	
0	
0	
0	
0	
	Question ID: <b>8401605475</b>
	Status : <b>Answered</b>
	Chosen Option : 1
cceptable noise level for suburba	an areas, as per IS code 4954-1968?
40 db	
30 db	
30 db	
	Question ID: 8401605428
	Status : <b>Answered</b> Chosen Option : <b>2</b>
	Chosen Option . 2
idia 'd', the capillary rise or fall (h) of a liquiation:	d, where surface cohesion is $\sigma$ , angle of contact is ' $\theta$ ' is
vcosθ/d	
lcosθ/d	
Ισcosθ/wα	
lv/d	
IV/U	
	Question ID: <b>8401605392</b>
	Status : <b>Answered</b> Chosen Option : <b>3</b>
t adjustment of levels, two peg te	st is done to correct:
f collimation	
ube hair ring and line of collimation	
hair ring and line of collination	

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

П

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 B

<sup>3</sup>/48EI

.4/30EI

4/48FI

3/8EI

Question ID: 8401605451

Status: Answered

Chosen Option : 2

del of a spillway, the velocity and discharge are 3 m/s. The corresponding e prototype is:

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 : 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?

$$A_1Q_1 = \rho_2 A_2 Q_2$$

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

$$A_1V_1 = \rho_2 A_2 V_2$$

$$r_1 = \rho_2 V_2$$

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 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 Chosen Option : 4

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

a 247

Question ID : **8401605452** Status : **Answered** 

Chosen Option: 4

aused by which industry?

e industry

crushers

industry

ery industry

Question ID : 8401605421

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

Question ID: **8401605435** Status: **Answered** 

Chosen Option : 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/m<sup>2</sup>

 $kN/m^2$ 

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 no tification 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

m

ſ

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: 2

erforation of fine screen used in the removal of suspended 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

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

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

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

Question ID: **8401605463**Status: **Answered** 

 $\label{thm:continuous} \textbf{tion of evaporation potential of catchment areas, the duration of}$ ı 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 ion constant of impounding reservoirs varies between: 6 Question ID: 8401605424 Status : Answered Chosen Option: 4 ent of friction is \_\_\_\_ for ideal smooth surfaces like glass. Question ID: 8401605450 Status: Answered Chosen Option: 4