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ne	
me	
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nguage

ction can be used for this sentence?

aining in Delhi, Gurugram has clear skies.

use

e

.

Question ID : **50389011127**
Status : **Answered**
Chosen Option : **2**

opropriate words to complete the phrase.
o make _____the lost time by using a cab instead of bus to reach the office.

)

or

n

Question ID : **50389011137**
Status : **Answered**
Chosen Option : **4**

ık using the most appropriate phrase.
'used to let him __without confirming his alibi.

Question ID : **50389011138**
Status : **Answered**
Chosen Option : **2**

ıst appropriate option to complete the sentence.

pend your income _____.

ionly

iously

ion

ious

Question ID : **50389011130**
Status : **Answered**
Chosen Option : **2**

: appropriate synonym of-

ard

ler

re

ect

Question ID : **50389011131**
Status : **Answered**
Chosen Option : **2**

ıost appropriate option to complete the sentence.
ıf land covered _____ lots of forests, bushes and plants is called a forest.

ss

Question ID : **50389011126**
Status : **Answered**
Chosen Option : **1**

the sentence contains an error?

ried with a lady from Australia.

ied with

y

Australia

ncle

Question ID : **50389011140**
Status : **Answered**
Chosen Option : **1**

the sentence contains an error?

the exam as I was unwell.

unwell.

not

the exam

Question ID : **50389011139**
Status : **Answered**
Chosen Option : **1**

sspelt word.

ble

cable

ble

ible

Question ID : **50389011136**
Status : **Answered**
Chosen Option : **3**

st appropriate option to complete the sentence.

fe, I _____ anyone ever running away from money.

not see

not seen

not seen

seen

entence which is grammatically correct.

its of scrap material is Rock Garden made of

material of bits is the Rock Garden made of

its of scrap material Rock of Garden is made

Rock Garden is made of bits of scrap material

Question ID : **50389011141**
Status : **Answered**
Chosen Option : **4**

: **appropriate synonym of-**

hy

athy

nosity

ty

Question ID : **50389011132**
Status : **Answered**
Chosen Option : **1**

ord which can be used in place of the words underlined.
ughter cannot read or write, so I am trying to encourage her to take some me.

ate

iate

ate

ite

Question ID : **50389011134**
Status : **Answered**
Chosen Option : **1**

st appropriate option to complete the sentence.
s argued with _____ over a piece of land.

selves

nselves

nself

other

Question ID : **50389011129**
Status : **Answered**
Chosen Option : **4**

sspelt word.

eal

ral

nal

al

Question ID : **50389011135**
Status : **Answered**
Chosen Option : **1**

: appropriate antonym of-

sure

gize

iidate

Question ID : **50389011133**
Status : **Answered**
Chosen Option : **2**

orrect preposition.

nding __ the moon was absurd 100 years ago.

Question ID : **50389011125**
Status : **Answered**
Chosen Option : **3**

e Aptitude

ह व्यय उसकी मासिक आय का 80% है। उसकी मासिक आय में 25% की वृद्धि हुई और उसके
10% की वृद्धि हुई। उसकी मासिक बचत में होने वाली प्रतिशत वृद्धि ज्ञात कीजिए।

$+\left(2x-\frac{2}{3}\right)^3+\left(x-\frac{1}{4}\right)^3=\frac{1}{8}(2x-3)(6x+2)(4x-1)$ है, तो x का मान ज्ञात करें।

$\frac{3}{8}$

Question ID : **50389011174**
Status : **Answered**
Chosen Option : **3**

गौना शंकु के ऊपर अर्धगोले के आकार का है। यदि खिलौने की ऊंचाई 14 cm है और शंक्वाकार भाग के आधार की
तो खिलौने में प्रयुक्त लकड़ी का आयतन (cm^3 में, दशमलव के दो स्थानों तक सही) ज्ञात कीजिए।

5

65

58

58

Question ID : **50389011170**
Status : **Answered**
Chosen Option : **3**

$= b^{\frac{1}{4}}, b^y = \sqrt{c}, c^z = \sqrt[3]{a}$ है, तो xyz का मान ज्ञात करें।

Question ID : **50389011144**
Status : **Answered**
Chosen Option : **1**

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प की उन सभी संख्याओं का योग ज्ञात कीजिए जिनकी इकाई का अंक 3 से विभाज्य है।

Question ID : **50389011142**
Status : **Answered**
Chosen Option : **2**

ह काम को 54 दिनों में पूरा कर सकते हैं। यदि एक आदमी 2 लड़कों के बराबर काम करता है, तो 2 लड़के उसी काम को कितने दिनों में पूरा करेंगे?

Question ID : **50389011159**
Status : **Answered**
Chosen Option : **3**

लमों का मूल्य रुपये 3600 है, तो कितने कलमों की कीमत रुपये 450 होगी?

Question ID : **50389011152**
Status : **Answered**
Chosen Option : **4**

emperature from 16th Feb to 23rd Feb was and from 17th Feb to 24th Feb it nperature on 16th Feb was, then what was the temperature (in °C) on 24th

Question ID : **50389011164**
Status : **Answered**
Chosen Option : **1**

क वस्तु को 12% की छूट पर बेचकर 12% का लाभ कमाता है। यदि वह केवल 10% की छूट
ा लाभ प्रतिशत क्या होगा?

$\frac{2}{3}$

$\frac{44}{63}$

$\frac{6}{11}$

$\frac{9}{11}$

Question ID : **50389011162**
Status : **Answered**
Chosen Option : **3**

र्ट 280 रुपये प्रति शर्ट की दर से खरीदता है और 20% लाभ पर बेचता है। Rs 672 का लाभ
से कितनी कमीजें बेचनी चाहिए?

Question ID : **50389011161**
Status : **Answered**
Chosen Option : **4**

ाम को 16 दिनों में कर सकता है और एक महिला उसी काम को 24 दिनों में कर सकती है। एक
लाओं ने काम शुरू किया। 4 दिनों के बाद आदमी ने काम छोड़ दिया और तीनों महिलाओं ने
ा रखा। महिलाओं ने शेष कार्य को कितने दिनों में पूरा किया?

Question ID : **50389011160**
Status : **Answered**
Chosen Option : **1**

) छात्रों का औसत अंक 52 है। यदि उत्तीर्ण छात्रों का औसत अंक 68 है और अनुत्तीर्ण छात्रों का
है, तो कितने छात्रों ने परीक्षा उत्तीर्ण की?

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5 km/h और 85 km/h की चाल से चलती हैं। जब वे विपरीत दिशाओं में चलती हैं, तो एक दूसरे पार करती हैं। जब वे एक ही दिशा में चलती हैं, तो तेज ट्रेन में एक व्यक्ति देखता है कि वह 36 न को पार करता है। तेज चाल वाली रेलगाड़ी की लंबाई (m में) ज्ञात कीजिए।

Question ID : **50389011157**
Status : **Answered**
Chosen Option : **1**

% लड़के हैं। लड़कों का औसत वजन 55 kg और लड़कियों का औसत वजन 50 kg है। पूरी वजन (kg में) कितना है?

Question ID : **50389011165**
Status : **Answered**
Chosen Option : **4**

ाटे और बेटी के बीच 88400 रुपये इस तरह से विभाजित किया कि 7 साल के अंत में उसके बेटे ली राशि, 9 साल के अंत में उसकी बेटी को प्राप्त होने वाली राशि के बराबर है, चक्रवृद्धि ब्याज र्षक है। उसने अपनी बेटी के नाम पर बैंक में कितनी धनराशि (रुपये में) जमा किया है?

)0

)0

)0

)0

Question ID : **50389011166**
Status : **Answered**
Chosen Option : **1**

पनी वस्तुओं पर उनके क्रय मूल्य से 30% अधिक मूल्य अंकित करता है और ग्राहकों को 20% उसका लाभ प्रतिशत क्या है?

Question ID : **50389011153**

lynomials $(3x+2)(4x^2-ax+3)$ and $(x-3)(3x^2-4x+b)$ is $(3x-2)(x-3)$, then find the

3

Question ID : **50389011173**
Status : **Answered**
Chosen Option : **2**

ा पर, 2 वर्षों के लिए साधारण ब्याज 9900 रुपये है, जबकि उसी ब्याज दर पर चक्रवृद्धि ब्याज
ने है। वार्षिक ब्याज दर क्या है?

%

Question ID : **50389011167**
Status : **Answered**
Chosen Option : **4**

खेत व्यंजक का मान ज्ञात कीजिए।

$$\frac{-22)\times 2-\left[-2-6\left\{5-(7-8)\right\}-4(-5)\right]}{(-12)\times(-2)-19}$$

$4\frac{4}{5}$

$3\frac{1}{5}$

)

Question ID : **50389011146**
Status : **Answered**
Chosen Option : **4**

क ऐसी संख्या है जो 88 से विभाज्य है, तो p के सबसे बड़े मान के लिए (2k + 7p) का मान क्या

Question ID : **50389011143**
Status : **Answered**
Chosen Option : **4**

खेत व्यंजक का मान ज्ञात कीजिए।

$$\frac{\sqrt[3]{432} \times \sqrt[3]{648}}{\sqrt[2]{729}}$$

Question ID : **50389011145**
Status : **Answered**
Chosen Option : **2**

(in sq. cm) of a rhombus whose each side is 45 cm long and one of the
'2 cm.

Question ID : **50389011168**
Status : **Answered**
Chosen Option : **4**

o consecutive positive multiples of 7 is 588. What is the sum of the two

ी ट्रेन एक सिग्नल पोल को 21 सेकंड में पार करती है। ट्रेन की चाल (km/h में) क्या है?

Question ID : **50389011155**
Status : **Answered**
Chosen Option : **2**

$b = \frac{a}{a-b} - \frac{b}{a+b}$ है, तो $\frac{2}{3} * \frac{3}{4}$ का मान ज्ञात करें।

$\frac{1}{6}$

$\frac{8}{7}$

$\frac{9}{7}$

Question ID : **50389011149**
Status : **Answered**
Chosen Option : **4**

$\frac{72}{\times 2.5} + \frac{2.8}{.07}$ का मान क्या होगा?

6

Question ID : **50389011148**
Status : **Answered**
Chosen Option : **1**

3, 0.031 में सबसे बड़ी संख्या और सबसे छोटी संख्याओं के योग तथा 0.183, 0.092, 0.64,
से बड़ी संख्या के बीच का अंतर क्या है?

7

1

Question ID : **50389011147**
Status : **Answered**
Chosen Option : **3**

परिवार के 3 सदस्यों की औसत आयु 25 वर्ष थी। तब से, दो बच्चे पैदा हुए हैं और परिवार की
वर्ष की कमी आई है। यदि दोनों बच्चों की आयु में 3 वर्ष का अंतर है, तो बड़े बच्चे की वर्तमान
या है?

Question ID : **50389011172**
Status : **Answered**
Chosen Option : **2**

क शंकु, जिसके आधार की त्रिज्या और ऊँचाई दोनों 7 cm हैं, को पिघलाया जाता है और 0.7
क निश्चित संख्या में गोलाकार कंचों में ढाला जाता है। ढाले गए कंचों की संख्या ज्ञात कीजिए।

Question ID : **50389011169**
Status : **Answered**
Chosen Option : **2**

काम का आधा भाग 5 दिन में कर सकता है और एक महिला उस कार्य को 15 दिन में पूरा कर
एक साथ मिलकर कार्य करते हैं, तो कार्य का आधा भाग कितने दिनों में पूरा हो जाएगा?

Question ID : **50389011158**

5 व्यक्तियों A, B, C, D और E की उल्लेखित महीनों के दौरान कमाई (1000 रुपये में) दिखाती है।
इन महीनों में नियमित रूप से बढ़ती रही?

	अप्रैल	मई	जून	जुलाई
	25.5	25.8	26	26.5
	24.2	25.5	27	26.8
	24.8	26.5	24	28.2
	24.7	25.2	27	28.8
	26.9	27.6	27.5	26.2

D, E

D

E

Question ID : **50389011175**
Status : **Answered**
Chosen Option : **1**

500 रुपये के कुल निवेश के साथ एक व्यवसाय शुरू किया। यदि 12000 रुपये के कुल लाभ को अनुपात में विभाजित करने के बजाय बराबर-बराबर विभाजित किया जाता है, तो A को अपने लाभ में 200 रुपये की हानि होती है, जब कुल लाभ को किए गए निवेश के अनुपात में बांटा गया था, के बीच क्या अंतर (रुपये में) है?

Question ID : **50389011151**
Status : **Answered**
Chosen Option : **1**

A, B और C में इस प्रकार बाँटा जाना है कि A को B के तीन गुने सिक्के मिलें और B को C के सिक्के मिलें। A को प्राप्त होने वाले सिक्कों की संख्या ज्ञात कीजिए।

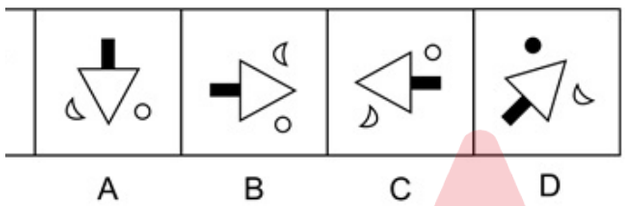
Question ID : **50389011150**
Status : **Answered**
Chosen Option : **3**

ास से चलना शुरू करता है और यदि वह 30 km/h की चाल से अपनी बाइक चलाता है तो 10
र्यालय पहुंचता है, और यदि वह 40 km/h की चाल से बाइक चलाता है, तो अपने कार्यालय को
पहले पहुंच जाता है। तो उसके आवास से उसके कार्यालय की दूरी (km में) क्या है?

Question ID : **50389011156**
Status : **Answered**
Chosen Option : **1**

I Potential Test

तियों A,B,C और D में से केवल एक प्रश्न-आकृति 'Q' के समान है। उस आकृति का चयन करें।

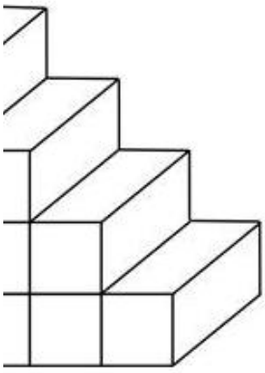


Question ID : **50389011200**
Status : **Answered**
Chosen Option : **4**

भाषा में, यदि CAT को BBS के रूप में; DOG को CPF के रूप में कूटबद्ध किया गया था, तो
ा कूट होगा?

Question ID : **50389011188**
Status : **Answered**
Chosen Option : **2**

ाकृति में कितने घनाभाकार खंड हैं?



Question ID : **50389011205**
Status : **Answered**
Chosen Option : **4**

ख्याओं का योग 108 है। मध्य में आने वाली संख्या कौन सी होगी (उनमें से न तो सबसे बड़ी और
ी)?

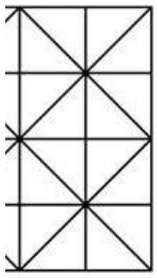
Question ID : **50389011194**
Status : **Answered**
Chosen Option : **1**

भाषा में, यदि पेंटर को दर्ज़ी कहा जाता था; दर्ज़ी को प्लंबर (Plumber) कहा जाता था; प्लंबर
कसाई कहा जाता था; कसाई को नाई कहा जाता था; और नाई को रसोइया कहा जाता था, तो
से कौन कपड़ों की सिलाई करेगा?

ग

Question ID : **50389011190**
Status : **Answered**
Chosen Option : **4**

e total (maximum) number of squares formed in the image below?



Question ID : **50389011181**
Status : **Answered**
Chosen Option : **3**

द-युग्म) का चयन करें जो दिए गए शब्द-युग्म के समान है।

: किनारा

अभाव

: सक्रिय

र्ण : शत्रुतापूर्ण

Question ID : **50389011199**
Status : **Answered**
Chosen Option : **4**

चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जिस प्रकार दूसरा पद पहले पद से संबंधित है।

: ?

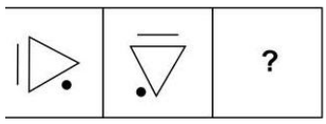
Question ID : **50389011179**
Status : **Answered**
Chosen Option : **1**

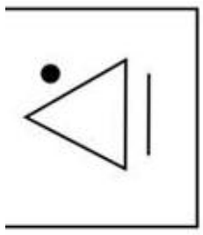
चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जिस प्रकार दूसरा पद पहले पद से संबंधित है।

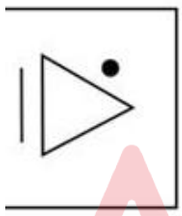
: ?

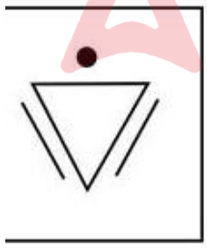
Question ID : **50389011178**
Status : **Answered**
Chosen Option : **1**

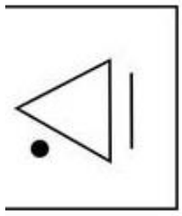
चयन करें जो प्रश्नवाचक चिह्न को प्रतिस्थापित करेगा और श्रृंखला को सही ढंग से पूर्ण करेगा।











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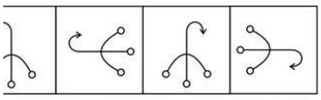
कृतियों A,B,C और D में से केवल एक प्रश्न-आकृति 'Q' के समान है। उस आकृति का चयन करें।



A B C D

Question ID : **50389011201**
Status : **Answered**
Chosen Option : **2**

गस एक निश्चित संख्या में मुर्ग़ियाँ और भैंसें हैं। यदि सभी भैंसों और मुर्ग़ियों के सिरों की संख्या ाती है, तो उनका योग 80 होता है। जब उनके पैरों की गणना की जाती है, तो उनका योग 200 के पास मौजूद भैंसों की संख्या क्या है?

Question ID : **50389011195**
Status : **Answered**
Chosen Option : **2**

ाल भाई-भाई हैं। गीता, अनिल की बेटी है। राहुल, गीता का इकलौता बेटा है। राहुल का अनिल से

Question ID : **50389011202**
Status : **Answered**
Chosen Option : **1**

कों से बनने वाली सबसे बड़ी संख्या और सबसे छोटी संख्या का योग क्या होगा?

ए सभी अंक पाँच अंकों की सबसे बड़ी और सबसे छोटी संख्या में मौजूद अवश्य होने चाहिए।)

18

19

19

19

Question ID : **50389011207**
Status : **Answered**
Chosen Option : **4**

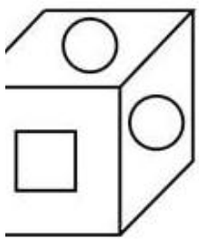
र विकल्पों में से तीन में कोई न कोई समानता है। उस विकल्प का चयन करें जो अन्य सभी से

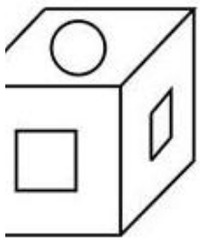
ड़ी

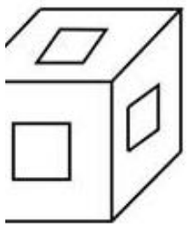
र

Question ID : **50389011186**
Status : **Answered**
Chosen Option : **4**

गए खुले घन के जाल को मोड़कर एक घन बनाया जाता है, तो कौन-सा घन (विकल्पों में से) बनाया







Question ID : **50389011176**
Status : **Answered**
Chosen Option : **2**

चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जिस प्रकार दूसरा पद पहले पद से संबंधित है।

HL : ?

Question ID : **50389011177**
Status : **Answered**
Chosen Option : **1**

में से तीन के बीच एक निश्चित समानता है। उस विकल्प (शब्द-युग्म) का चयन करें जो अन्य
ात है।

सक – चिकित्सालय

क्ता – न्यायालय

ाता – मंच

ु – स्टीयरिंग

Question ID : **50389011197**
Status : **Answered**
Chosen Option : **4**

र विकल्पों में से तीन में कोई न कोई समानता है। उस विकल्प का चयन करें जो अन्य सभी से

श, खरहा (जंगली खरगोश), हिरण

भेड़िया, रीछ

सर्प, गरुड़

ाकरी, गाय

Question ID : **50389011187**
Status : **Answered**
Chosen Option : **3**

चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से

ड्रेट्स :: वृद्धि : ?

Fats)

खाद्य (Roughage)

(Starch)

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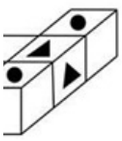
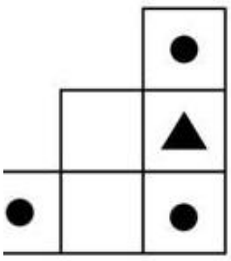
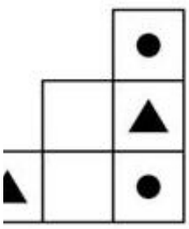
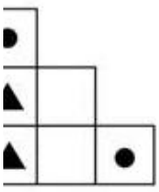
ों में से कौन सा विकल्प नीचे दर्शाए गए चित्र के शीर्ष दृश्य को सही ढंग से दर्शाता है?









Adda247

Question ID : **50389011206**
Status : **Answered**
Chosen Option : **1**

चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से

ाकरी : ?

ाना

नाना

Question ID : **50389011183**
Status : **Answered**
Chosen Option : **1**

ाई की पत्नी है। लीला के पति मनोहर का एक भाई केदार और एक बहन है। हेमा की बेटी मनीषा
ा संबंध है?

/ममेरी/मौसेरी/फुफेरी बहन

ामी/मौसी/बुआ

/भतीजी

Question ID : **50389011203**
Status : **Answered**
Chosen Option : **3**

में से तीन के बीच एक निश्चित समानता है। उस विकल्प (शब्द-युग्म) का चयन करें जो अन्य
ात है।

वृंद (Lead)

याँ – दल (Swarm)

– समूह (Herd)

झुंड (Flock)

Question ID : **50389011198**
Status : **Answered**
Chosen Option : **1**

क कितने विशिष्ट अभाज्य गुणनखंड (distinct prime factors) हैं?

Question ID : **50389011209**
Status : **Answered**

योगिता में छह खिलाड़ियों ने भाग लिया है। पहले चक्र में कितने मैच खेले जाएंगे जिसमें प्रत्येक प्रतिभागी के साथ वास्तव में एक ही बार खेलता है?

Question ID : **50389011196**
Status : **Answered**
Chosen Option : **1**

सबसे बड़ी संख्या कौन सी है जो 14 और 15 दोनों से पूर्णतः विभाज्य है?

Question ID : **50389011208**
Status : **Answered**
Chosen Option : **1**

भाषा में, यदि आम को केले के रूप में कूटबद्ध किया गया था; केले को संतरे के रूप में कूटबद्ध संतरे को चेरी के रूप में कूटबद्ध किया गया था; और चेरी को सेब के रूप में कूटबद्ध किया गया भाषा में निम्नलिखित में से कौन सा फल नींबू-वंश के फल (citrus fruit) का उदाहरण होगा?

Question ID : **50389011189**
Status : **Answered**
Chosen Option : **3**

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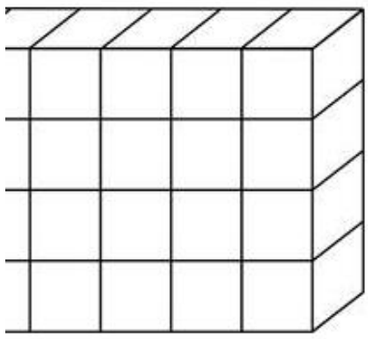
ाकृति में कितने घनीय खंड हैं?



Question ID : **50389011204**
Status : **Answered**
Chosen Option : **1**

चयन करें जो तीसरे शब्द से उसी प्रकार संबंधित है जिस प्रकार दूसरा शब्द पहले शब्द से

न :: राफ़्टिंग : ?

के मैदान

ान

Question ID : **50389011184**
Status : **Answered**
Chosen Option : **1**

यन करें जो दी गई संख्या श्रृंखला में प्रश्नवाचक चिह्न (?) के स्थान पर आएगी।

256, ?

यन करें जो दी गई संख्या श्रृंखला में प्रश्नवाचक चिह्न (?) के स्थान पर आएगी।

, 30, ?

Question ID : **50389011192**
Status : **Answered**
Chosen Option : **4**

'tea is hot' को 'chi mus tus' के रूप में कूटबद्ध किया जाता है; 'coffee is sweet' को 'bin में कूटबद्ध किया जाता है; और 'tea and coffee' को 'chi hut bin' के रूप में कूटबद्ध किया ी कूट भाषा में 'hot' शब्द के लिए निम्नलिखित में से कौन सा शब्द कूट होगा?

Question ID : **50389011191**
Status : **Answered**
Chosen Option : **3**

चयन करें जो तीसरे पद से उसी प्रकार संबंधित है जिस प्रकार दूसरा पद पहले पद से संबंधित है।

?

Question ID : **50389011180**
Status : **Answered**
Chosen Option : **1**

owledge

following is NOT correctly paired, about air pollutant and its effect?

hur Dioxide – Bronchial-spasms.

ıe – Acid Rains.

on Monoxide – Acute toxicity.

– Retarded mental growth in children.

LSE the statement regarding the advantages of traffic signals.

quality of traffic is improved.

right-angled collision accidents may be reduced.

rear-end collisions may be decreased.

increase the traffic handling capacity of most of the intersections at grade.

Question ID : **50389011289**
Status : **Answered**
Chosen Option : **3**

pe the maximum spacing between the expansion joints with rough interface nt concrete pavements as per IRC?

m.

m.

.

.

Question ID : **50389011224**
Status : **Answered**
Chosen Option : **3**

following pair is not correctly matched regarding types of road surface and IRC d value of camber in very heavy rainfall range place?

nd macadam, and gravel pavement → 1 in 33.

in bituminous surface → 1 in 65.

crete and high type bituminous surface → 1 in 50.

rth surface → 1 in 25.

Question ID : **50389011290**
Status : **Answered**
Chosen Option : **2**

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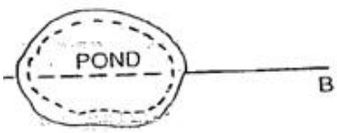
'pe of obstruction is offered by the following condition?



e is no type of obstacle.

acle to ranging only.

acle to chaining only.

acle to both chaining and ranging.

Question ID : **50389011261**
Status : **Answered**
Chosen Option : **3**

ıe section of diameter 25 cm, velocity of flow is 2m/s. Calculate the velocity of er section with 20 cm diameter, in the pipe.

5 m/s.

n/s.

n/s.

s.

Question ID : **50389011231**
Status : **Answered**
Chosen Option : **3**

following is NOT a desirable factor for selection of a dam/reservoir site?

itable site for the spillway should be available in the near vicinity.

ıble foundation must be available.

ength of dam should be as large as possible.

reservoir basin should be reasonably water-tight.

Question ID : **50389011236**
Status : **Answered**
Chosen Option : **3**

crop is 0.864 m and the base period is 130 days. What is the duty of the crop cumec)?

)

10

ONG statement regarding the factors that influence the thickness of the er formation along a flat smooth plate.

oundary layer thickness is considerably affected by the pressure gradient in f flow.

ter is the kinematic viscosity of the fluid greater is the boundary layer thickness.

oundary layer thickness decreases with the increase in the velocity of flow of ng stream of fluid.

oundary layer thickness decreases as the distance from the leading-edge

Question ID : **50389011233**
Status : **Answered**
Chosen Option : **1**

ements carefully and select the correct option.

Either a circular or a parabola may be used for vertical curve.

The rate of change in grade is variable throughout in a parabolic vertical curve, cal axis.

statements are True.

ement 1 is True and statement 2 is False.

ement 1 is False and statement 2 is True.

statements are false.

Question ID : **50389011270**
Status : **Answered**
Chosen Option : **1**

value of limiting (balanced) moment of resistance of R. C. C. beam of width effective depth 400 mm, reinforced with three bars of 16 mm diameter of nd M30 concrete.

kN-m.

kN-m.

N-m.

N-m.

Question ID : **50389011228**
Status : **Answered**
Chosen Option : **1**

error is calculated in the theory of errors?

of true and most probable values.

rence of true and observed value.

rence of most probable and observed values.

QUEFACTION phenomenon about soil failure?

ing failure of sand under heavy loads.

re of soil slopes.

re of soil under Liquid retaining hydraulic structures.

l loses its shear strength due to oscillatory motion.

Question ID : **50389011285**
Status : **Answered**
Chosen Option : **4**

owing expression was given by Von Karman for estimation of hydrodynamic pressure (P_e) in Gravity

r above the base, α_h = horizontal acceleration coefficient, w= unit weight of water & c= dimensionless
ding upon slope of the upstream face and depth of reservoir.

55*α_h*w*H^2

α_h*w*H

α_h*w*H^3

55*α_h*w*H^2

Question ID : **50389011242**
Status : **Answered**
Chosen Option : **3**

se the latitudes and departures of sides were calculated as under-
= 1.5 m & ∑departure =-0.5 m;
be the length of closing error?

1.5) m

2.5) m

2.0) m

4.0) m

Question ID : **50389011263**
Status : **Answered**
Chosen Option : **2**

the following statements as True/False.

urement of flow in open channels is generally made by means of venturimeter, and orificemeter.

pen channels and rivers the flow is estimated by dividing the flow section into naller sections and determining the average velocity for each by means of

statements are False.

statements are True.

ement S1 is False and statement S2 is True.

ement S1 is True and statement S2 is False.

Question ID : **50389011234**
Status : **Answered**
Chosen Option : **3**

ALSE statement regarding the 'STANDARD PENETRATION TEST'.

test is extremely useful for determining the angle of shearing resistance of soils.

test cannot be used to determine the unconfined compressive strength of s.

is the most commonly used in-situ test, especially for cohesionless soils.

test is extremely useful for determining the relative density of cohesionless

Question ID : **50389011282**
Status : **Answered**
Chosen Option : **2**

Standard General Construction in Steel- Code of practice'; for deep elds, where the depth of penetration beyond the root run is a minimum of 2.4 of fillet should be as:

mum leg size – 2.4 mm.

mum leg size + 2.4 mm.

mum leg size + (2*2.4) mm.

mum leg size + 2.4 mm.

Question ID : **50389011221**
Status : **Answered**
Chosen Option : **1**

flow in an irrigation channel is 2.5 m and the value of critical velocity ratio is
he critical velocity (m/sec) of the channel according to Kennedy's theory?

$6*(2)^{0.16}$.

$6*(2.5)^{0.64}$.

$0*(1.55)^{0.64}$.

$*(0.55)^{0.64}$.

Question ID : **50389011241**
Status : **Answered**
Chosen Option : **2**

ween two horizontal plates is filled with a fluid of viscosity of 1.2 N-s/m^2 and upper plate is moving
f 2m/s. What is the value of shear stress in the fluid?

N/m^2

$0\ N/m^2$

$0\ N/m^2$

N/m^2

Question ID : **50389011230**
Status : **Answered**
Chosen Option : **4**

plane; a curve whose radius is variable, is known as:

pound curve.

le circular curve.

ment curve.

rse curve.

Question ID : **50389011264**
Status : **Answered**
Chosen Option : **1**

following expression represents the angularity number for the aggregate, used
nstruction?

cylinder, W= weight of aggregate in the cylinder, G= specific gravity of

$$, _ \frac{100C}{WG}$$

$$)0 - \frac{67W}{CG}$$

$$, _ \frac{100G}{CW}$$

$$, _ \frac{100W}{CG}$$

Question ID : **50389011226**
Status : **Answered**
Chosen Option : **4**

CORRECT statement regarding the stiffeners in a steel plate girder.

type of stiffeners may perform more than one function but their design should
he other requirements also.

ional stiffeners are provided at the supports of plate girder.

ion stiffeners are provided to transmit tensile forces applied to a web through a

zontal stiffeners are attached to the bottom flange plate of the plate girder.

Question ID : **50389011219**
Status : **Answered**
Chosen Option : **4**

__ is a communication system which allows speech to be transmitted from the
nstrument to the prism.

ronics Unicom.

-guide.

romagnetic distance measurement device.

net.

Question ID : **50389011268**
Status : **Answered**
Chosen Option : **4**

ect population forecasting method, which can be represented mathematically by the
ı:

$\frac{r}{100}\Big)^n$

ıre population after 'n' decades, Q= initial population,
umed growth rate, n= number of decades.

ing increment method.

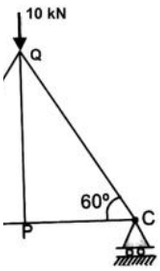
mental increase method.

netric increase method.

easing rate method.

Question ID : **50389011257**
Status : **Answered**
Chosen Option : **2**

ıe value of axial load in the member 'PQ' of the given pin jointed plane frame.



N.

sin60) kN.

sin30) kN.

Question ID : **50389011217**
Status : **Answered**
Chosen Option : **3**

**.0 cm occurred in a 4-hour storm and the φ- index was 0.25 cm/hour. What
ıll excess?**

cm.

m.

m.

cm.

Question ID : **50389011239**
Status : **Answered**
Chosen Option : **3**

as drawn with R. F. = (1/2000). The sheet of map shrinks with shrinkage ratio
calculate the corrected scale (R. F.) for the map?

)00)

200)

4000)

300)

Question ID : **50389011259**
Status : **Answered**
Chosen Option : **2**

n test, when the load is changed from 150 kN/m^2 to 200 kN/m^2, the void ratio changes from 0.60 to
he coefficient of volume change.

1600) m^2/kN.

1600) kN/m^2.

05/log1.33).

1000) m^2/kN.

Question ID : **50389011280**
Status : **Answered**
Chosen Option : **4**

ample of Active sensor in Remote sensing, from the following sensors.

r scanner.

vision camera.

rn Beam Vidicon.

ro-optical scanner.

Question ID : **50389011272**
Status : **Answered**
Chosen Option : **4**

following is an example of time dependent non-Newtonian fluid?

otropic.

ham.

idoplastic.

ant.

Question ID : **50389011229**
Status : **Answered**
Chosen Option : **4**

__ is generally placed inside the tail exhaust pipe of the automobile to control on due to partially oxidized emissions.

one collector.

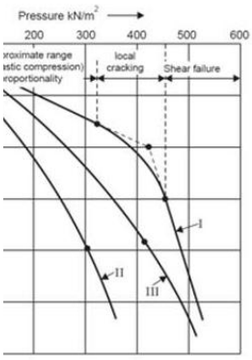
ic filter.

rostatic precipitator.

lytic convertor.

Question ID : **50389011248**
Status : **Answered**
Chosen Option : **2**

e depicts typical load-settlement curves from plate load tests for different type of soils. Select the ed pair.



e I ----- Typical of loose sand or soft clay, wherein local shear failure occurs.

e II ----- Typical of dense sand or gravel or stiff clay, wherein general shear

.

e I ----- Typical of dense sand or gravel or stiff clay, wherein general shear failure

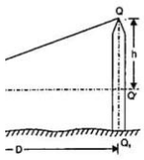
e II ---- Typical of many c – φ soils which exhibit characteristics intermediate neral shear failure and local shear failure.

Question ID : **50389011279**
Status : **Answered**
Chosen Option : **1**

Standard General Construction in Steel- Code of practice'; Shear resistance at ntact surface between steel base and concrete/grout may be calculated using fficient of:

Question ID : **50389011222**
Status : **Answered**

reduced level of top of tower (point Q) given in figure with accessible base and neglecting the effect of raction. Reduced level of point 'P' = X, D= horizontal distance. α= angle, h'= height of instrument.



$- h' + D*\tan\alpha + 0.06735*D^2]$

$+ h' + D*\tan\alpha - 0.06735*D^2]$

$+ h' + D*\tan\alpha]$

$+ h' - D*\tan\alpha]$

Question ID : **50389011265**
Status : **Answered**
Chosen Option : **3**

following group is an example of ground-based platform regarding Remote

stationary satellite and sun-synchronous satellite.

ons, Aircraft, Helicopter, and Drones.

ler, Tower, Crane, and Truck.

altitude aircraft and high-altitude aircraft.

Question ID : **50389011271**
Status : **Answered**
Chosen Option : **3**

ıt dispersion studies, ELR, stands for:

ogical light ratio.

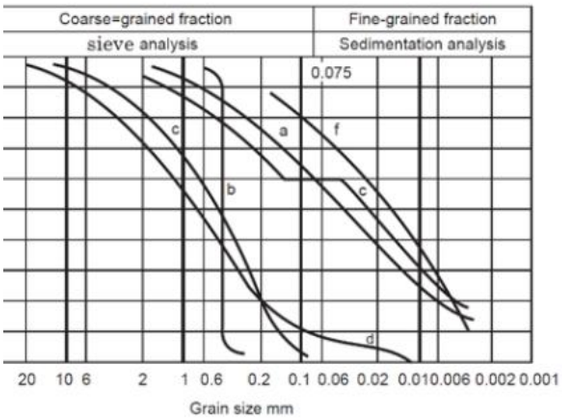
onmental light ratio.

onmental lapse rate.

ogical lapse rate.

Question ID : **50389011246**
Status : **Answered**
Chosen Option : **3**

e following curve represents a 'poorly graded soil', given in figure below?



e 'd'.

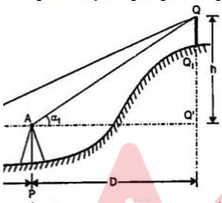
e 'b'.

e 'a'.

e 'f'.

Question ID : **50389011276**
Status : **Answered**
Chosen Option : **2**

ıent stations are in same vertical plane as the elevated object and the instrument axes are at same level,
. of point 'Q', as per given figure.,



e at instrument at 'P', α_2= angle at instrument at 'R', b= distance between two instruments, D=
ce between first instrument and foot of elevated object; R. L. of B. M. = Reduced level of bench mark
e.

. L. of B. M. $+S-\frac{(b*cos\alpha_1*cos\alpha_2)}{\cos(\alpha_1-\alpha_2)}$

L. of B. M. $+S+\frac{(b*cos\alpha_1*cos\alpha_2)}{\cos(\alpha_1-\alpha_2)}$

L. of B. M. $+S+\frac{(b*sin\alpha_1*sin\alpha_2)}{\sin(\alpha_1-\alpha_2)}$

L. of B. M. $-S+\frac{(b*sin\alpha_1*sin\alpha_2)}{\sin(\alpha_1-\alpha_2)}$

CORRECT statement from the following, regarding GPS.

ANSIT user at the equator can obtain a position fix at the average of about 10

PS, satellites are placed in orbits with orbital radius approximately of 1500Km.

satellite constellation of GPS consists of 24 satellites.

can provide three-dimensional positioning system.

Question ID : **50389011274**
Status : **Answered**
Chosen Option : **4**

following represent the lines joining points of equal dip?

ar lines.

inic lines.

ıic lines.

onic lines.

Question ID : **50389011262**
Status : **Answered**
Chosen Option : **2**

following is not classified as a part of Refuse?

es.

age.

an excreta.

ish.

Question ID : **50389011249**
Status : **Answered**
Chosen Option : **1**

the following statements as True/False.

eslau principle is based on the concept of the influence line as a deflection

eslau principle is the straight application of Maxwell's reciprocal theorem.

statements S1 and S2 are False.

S1 and S2 are True.

ement S1 is True and statement S2 is False.

ement S1 is False and statement S2 is True.

Question ID : **50389011218**

the following statements as True/False.

s are generally less effective in removing gaseous pollutants than towers.

er is an effective device for removing gaseous pollutants from industry's

tion units, activated carbon beds cannot effectively catch hydrocarbon, H2S

ement S2 & S3 are True but S1 is False.

ement S1 & S3 are True but S2 is False.

ement S1 & S2 are True but S3 is False.

ement S1 & S2 are False but S3 is True.

Question ID : **50389011247**
Status : **Answered**
Chosen Option : **3**

of continuous flow type sedimentation tank, if A= theoretical detention period
tual average time taken by a batch of water in passing through the settling
at will be the displacement efficiency?

3

Question ID : **50389011255**
Status : **Answered**
Chosen Option : **2**

following is defined as under?

The rate of doing work by a travelling sound wave in the direction of
f the wave."

er of sound.

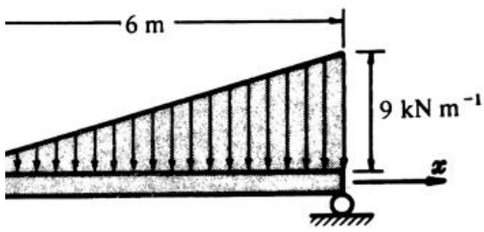
id intensity.

id pressure.

id spectra.

Question ID : **50389011251**
Status : **Answered**
Chosen Option : **1**

e the value of maximum shear force for the given beam in figure below?



N.

N.

N.

N.

Question ID : **50389011214**
Status : **Answered**
Chosen Option : **4**

following is the pipe network for water supply; in which, a closed ring of main ed around/on the periphery of the area to be served?

al system.

ılar system.

system.

iculation system.

Question ID : **50389011256**
Status : **Answered**
Chosen Option : **2**

steepest gradient permitted on a 4° curve for a Meter Gauge line (Indian). The ıt for the section is specified as 0.62%.

250.

200.

264.

150.

Question ID : **50389011291**
Status : **Answered**
Chosen Option : **1**

orrect equation regarding the non-recording rain gauge.

h of rain fallen = Volume of water collected * Area of aperture of the gauge

h of rain fallen = Volume of water collected + Area of aperture of the gauge

ximum height of capillary fringe in a soil with void ratio of 0.50 and effective size of 0.015 mm.
n^2.

n.

n.

n.

n.

Question ID : **50389011283**
Status : **Answered**
Chosen Option : **4**

ion is the friction between _____ surfaces.

sy

ly smooth

Question ID : **50389011212**
Status : **Answered**
Chosen Option : **1**

rect relationship for a shaft of uniform circular cross-section.

ional Rigidity = Modulus of Rigidity - Polar moment of Inertia

ional Rigidity = Modulus of Rigidity + Polar moment of Inertia

ional Rigidity = Modulus of Rigidity/Polar moment of Inertia

ional Rigidity = Modulus of Rigidity * Polar moment of Inertia

Question ID : **50389011216**
Status : **Answered**
Chosen Option : **3**

NCORRECTLY paired from the following, the source of noise and its noise level

- Propeller type, take-off, at 300 m → 90 to 100

- Jet, take-off, at about 300 m → 100 to 110

ad traffic (Highways) → 60 to 75

ic (at about 30 m) → 90 to 110

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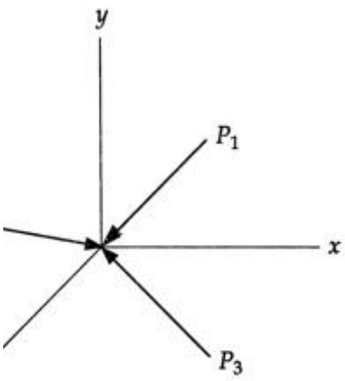
the forces (p_1, p_2, p_3), given in the figure below?



anar non-concurrent forces.

coplanar non-concurrent forces.

coplanar concurrent forces.

anar concurrent forces.

Question ID : **50389011211**
Status : **Answered**
Chosen Option : **4**

the following statements as True/False.

of viscous fluid must satisfy the no-slip condition at the solid boundary.

dary-layer exists in flow of ideal fluids.

ept of boundary-layer divides the flow into two zones.

ements S1 and S3 are True but S2 is False.

ement S1 is True but statements S2 & S3 are False.

ree statements are True.

ree statements are False.

Question ID : **50389011232**
Status : **Answered**
Chosen Option : **1**

Bio-chemical oxygen demand in waste water is also known as:

fication demand.

hureous demand.

bined demand.

CORRECT statement from the following, related to the LAPLACE'S EQUATION nalysis.

other family represents the equipotential lines along which the potential or total ant.

ace's equation can be solved if the boundary conditions at the inlet and exit are

equation represents two families of curves which are parallel to each other.

family represents the flow lines along which the flow takes place.

Question ID : **50389011284**
Status : **Answered**
Chosen Option : **3**

pillway crest gate, which consists of a hollow steel cylinder or drum spanning piers constructed on the crest of the spillway.

n boards.

ng vertical gates.

logs and Needles.

ng gates.

Question ID : **50389011243**
Status : **Answered**
Chosen Option : **4**

e WRONG statement related to the characteristics of Rubbish in Indian

bish has a density varying between 50 to 400 kg/m3.

bish includes rags paper pieces, broken pieces of glass and furniture, card-

bish includes all non-putrescible wastes except ashes.

bish constitutes more than 50% of the total municipal solid waste.

Question ID : **50389011250**
Status : **Answered**
Chosen Option : **2**

following is also named as 'Loose Needle method' in traversing?

sit tape traversing.

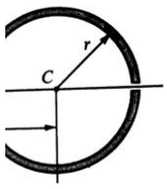
n and compass traversing.

n traversing.

-table traversing.

Question ID : **50389011266**
Status : **Answered**
Chosen Option : **2**

f a slit circular tube of constant thickness is shown in figure below. Calculate the distance 'e' from the le(C) to the shear center(S), if the radius r= 20 cm.



) cm.

) cm.

)/π cm.

0 cm.

Question ID : **50389011215**
Status : **Answered**
Chosen Option : **4**

following is a classification of Piles based on the "Mode of Transfer of Loads'?

l pile, Concrete piles, Timber piles.

bearing piles, Friction piles, Combined end bearing and friction piles.

lacement piles, Non-displacement piles.

ler piles, Sheet piles, Compaction piles.

Question ID : **50389011278**
Status : **Answered**
Chosen Option : **2**

edahl nitrogen in sewage?

of ammonia nitrogen and organic nitrogen.

of ammonia nitrogen and nitrites.

of nitrites and nitrates.

of organic nitrogen and nitrates.

Question ID : **50389011253**
Status : **Answered**
Chosen Option : **4**

following evoporimeter is adopted by Indian standard IS: 5973-1970 for evaporation?

of 1.22 m square in plan and 25.5 cm in depth.

of 1.22 m in diameter and 25.5 cm in depth.

of 92 cm square in plan and 46 cm deep.

of 90 cm square in plan and 45 cm deep.

. is the intensity of loading that will cause a permissible settlement or lement for the structure.

ıltimate bearing capacity.

bearing pressure.

›ressure intensity.

ıate bearing capacity.

Question ID : **50389011286**
Status : **Answered**
Chosen Option : **2**

minimum depth of foundation required as per Rankine's analysis, for a intensity of loading at base is 171kN/m^2, unit weight of soil= 19kN/m^3 and ring resistance = 30°.

ո.

ո.

ո.

m.

Question ID : **50389011287**
Status : **Answered**
Chosen Option : **3**

ıis-matched pair about type of Airport and the maximum value of longitudinal taxiway, as per ICAO.

'B' airport ------- 1.5%.

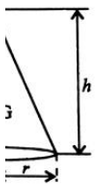
'C' airport -------- 3.0 %

'A' airport ------- 1.0%.

'E' airport ------- 3.0 %.

Question ID : **50389011292**
Status : **Answered**
Chosen Option : **2**

ıe of 'y', the distance of center of gravity, for the given HOLLOW CONE in the figure below?



Question ID : **50389011210**
Status : **Answered**
Chosen Option : **3**

ınumbers of orbital planes and satellites in one orbit for a GPS, respectively?

ıty-four and Six.

nd Four.

and Twenty-eight.

e and Four.

Question ID : **50389011273**
Status : **Answered**
Chosen Option : **1**

ınge of 'probable error of computed distance' for the tertiary triangulation?

20,000 to 1 in 50,000.

5,000 to 1 in 20,000.

1000 to 1 in 5000.

50,000 to 1 in 250,000.

Question ID : **50389011269**
Status : **Answered**
Chosen Option : **1**

he category of the given traffic sign given in the figure.

matory sign.

datory sign.

ionary sign.

ılatory sign.

Question ID : **50389011288**
Status : **Answered**
Chosen Option : **1**

ɔf friction, A= total area of steel in cm^2 across the slab width, S= allowable tensile stress in steel in kg/
:kness in cm, W= unit weight of cement concrete in kg/ m^3 , b= slab width in m; then what is the
ction joints (LC) in reinforced cement concrete pavements?

$= \frac{200SA}{bhWf}$

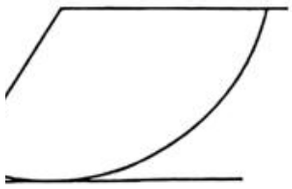
$= \frac{20000S}{Wf}$

$= \frac{200bhW}{SAf}$

$= \frac{200WSb}{Shf}$

Question ID : **50389011225**
Status : **Answered**
Chosen Option : **4**

pe of slope failure of soil is represented by the given figure?



Rotational Failure.

slational Failure.

Rotational Failure.

pound Failure.

Question ID : **50389011281**
Status : **Answered**
Chosen Option : **1**

value of combined correction due to refraction and curvature for a distance of

9 m

m.

8 m.

m.

Question ID : **50389011258**
Status : **Answered**
Chosen Option : **1**

LSE statement regarding soil classification according to 'INDIAN STANDARD ION (ISC system)'.

k cotton soils of India lie partly above A-line and partly below A-line.

are broadly divided in three divisions as- Coarse-grained, Fine-grained and c soil (as Peat).

se of coarse-grained soils, if fines are more than 12%, border line cases require

fine-grained soils in ISC system are subdivided into three categories.

Question ID : **50389011277**
Status : **Answered**
Chosen Option : **3**

vo-phase traffic signal is designed by Webster's method. Determine the al cycle, if the sum of all critical flow ratios is 0.50 and the all-red time edestrian crossing is 13 seconds.

econds.

seconds.

seconds.

econds.

Question ID : **50389011223**
Status : **Answered**
Chosen Option : **1**

vement design, the ratio of contact pressure to tyre pressure is known as:

lity factor.

ss ratio factor.

ict factor.

bility factor.

Question ID : **50389011227**
Status : **Answered**
Chosen Option : **1**

turning radius of the taxiway for an airport serving large subsonic jet planes. peed of turning is 60 kmph and assume friction coefficient between tyre and face as 0.15.

85 m.

m.

54 m.

m.

Question ID : **50389011293**
Status : **Answered**
Chosen Option : **2**

following is a WRONG assumption of DUPUIT-THIEM THEORY for analysis of flow towards a well?

aquifer has infinite lateral extent.

well is of small size and has negligible storage.

is turbulent flow and Darcy's law is not incorporated in this analysis.

flow lines are radial.

Question ID : **50389011238**
Status : **Answered**
Chosen Option : **2**

ur factor' is defined as the ratio between the number of vehicles counted
ak hour and _____ the number counted during the highest fifteen
ninutes.

y times.

ty-eight times.

times.

times.

Question ID : **50389011294**
Status : **Answered**
Chosen Option : **2**

iquid limit minus natural water content of a soil to its plasticity index is known

index

hness index

dity index

istency index

Question ID : **50389011275**
Status : **Answered**
Chosen Option : **4**

s of structures by the principle of Virtual Work, which of the following forces
to do work and are not omitted?

ion in a light inextensible string.

es normal to the direction of displacement.

centrated load on the mid span of a simply supported beam.

tion at smooth pins and hinges which do not move.

Question ID : **50389011213**
Status : **Answered**
Chosen Option : **4**

e FALSE statement regarding the advantages of a Barrage from the following.

ities for inspection and repair of various structures.

outflow can be easily regulated by gates.

adway can be provided easily over the structure with small additional cost.

nitial cost of the Barrage is quite low.

Question ID : **50389011244**
Status : **Answered**
Chosen Option : **4**

value of shape factor for a rectangular steel beam cross-section of
, as per plastic analysis of steel structures design concept.

Question ID : **50389011220**
Status : **Answered**
Chosen Option : **4**