

GOVT. OF NCT OF DELHI

Delhi Subordinate Services Selection Board FC-18, Institutional Area, Karkardooma, Delhi – 110092.

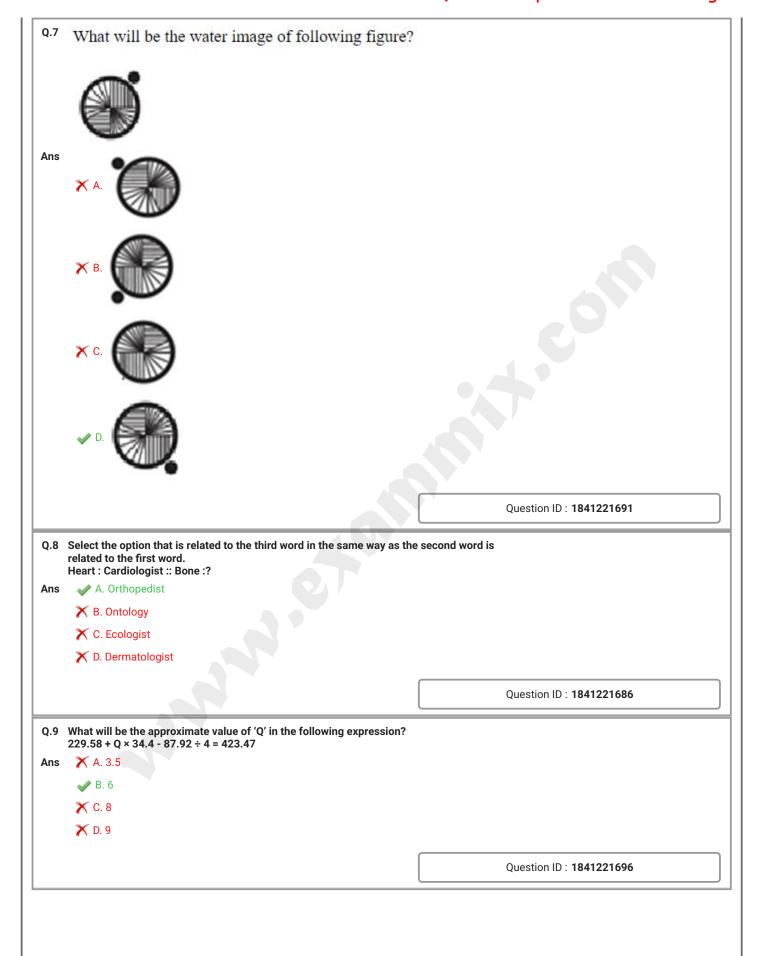
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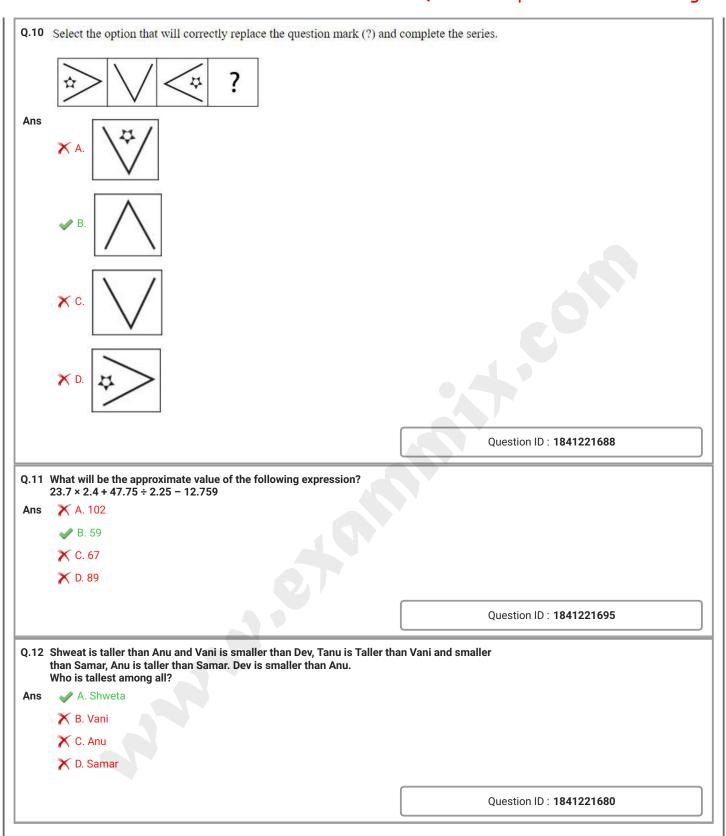
Participant ID		
Participant		
Name		
Test Center	iON Digital Zone iDZ 2 Sector	
Name	ION Digital Zone IDZ Z Sector	
Test Date	22/06/2022	
Test Time	8:30 AM - 10:30 AM	
Subject	Junior Engineer (Electrical) or Section Officer	
Subject	(Electrical)	

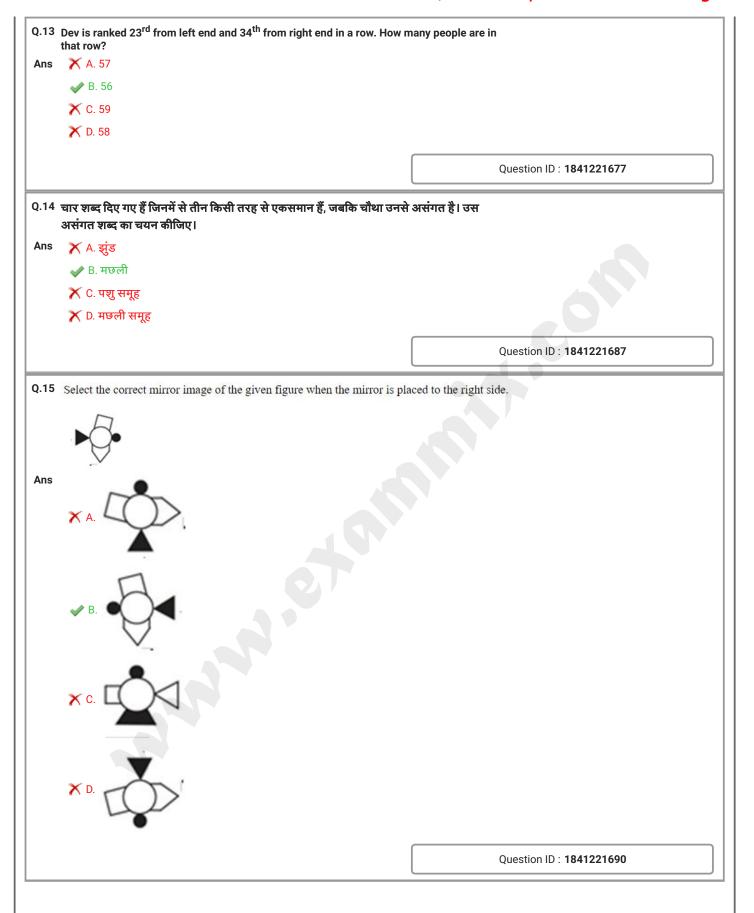
www.exammix.com

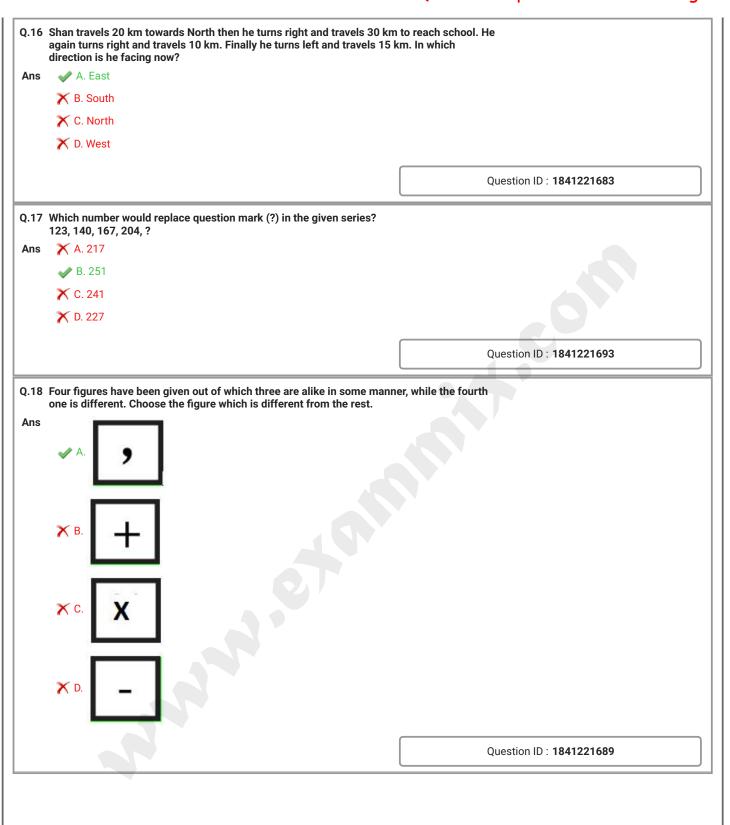
Section	on : Mental Ability	
Q.1	Which letter cluster would replace question mark (?) in the given series? EF, LL, SR, ZX, ?	
Ans	X A. CH	
	✓ B. GD	
	X C. HC	
	X D. DE	
		Question ID : 1841221681
Q.2	Atul ranked 17 th from left end of the row, while Sachin ranked 15 th from row. If there are exactly 5 persons between Atul and Sachin. If Atul is to Sachin, how many persons are in that row?	
Ans	★ A. 40	
	✓ B. 37	
	★ C. 36	
	★ D. 39	
		Question ID : 1841221678
Q.3	Four numbers have been given out of which three are alike in some man one is different. Choose the number which is different from the rest. (NOTE: Only whole numbers should be considered, without breaking dovits constituent digits)	
Ans	X A. 83	
	★ B. 53	
	★ C. 73	
	✔ D. 63	
		Question ID : 1841221694

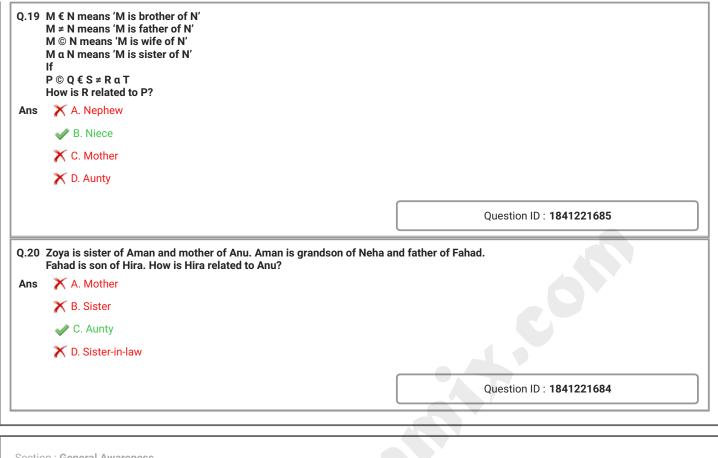
	Which of the following meaningful word can be formed u RELATIONSHIP, a letter can be used only once?	
Ans	X A. Reinstate	
	✓ B. Alter	
	C. Shipment	
	X D. Road	
		Question ID : 1841221682
Q.5	Which number would replace question mark (?) in the giv 42, 55, 70, 87, ?	ven series?
Ans	X A. 109	
	★ B. 100	
	✓ C. 106	
	★ D. 103	
		Question ID : 1841221692
Q.6	Two statements are followed by two conclusions. Considif they seem to be at variance with commonly known fact conclusion(s) logically follow(s) from the given statement statements: A. All dogs are lion. B. All sheep are lion. Conclusions: I. Some lions are dogs. II. Some lions are sheep.	der the statements to be TRUE even
	if they seem to be at variance with commonly known fact conclusion(s) logically follow(s) from the given statemer Statements: A. All dogs are lion. B. All sheep are lion. Conclusions: I. Some lions are dogs.	der the statements to be TRUE even
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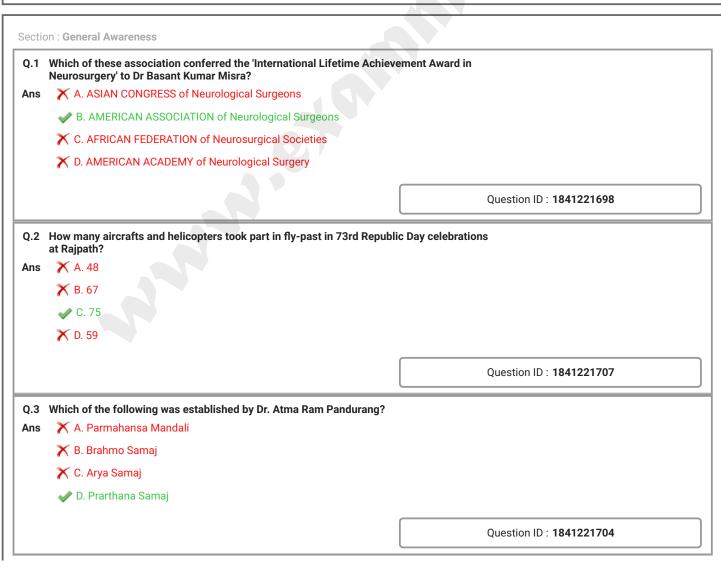








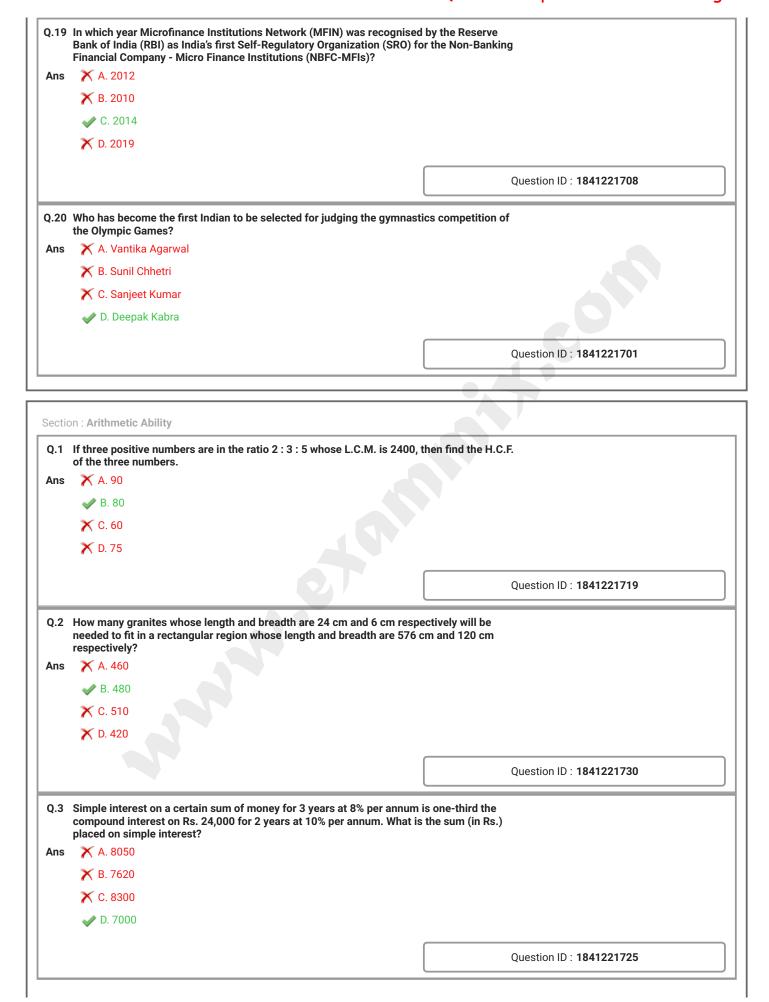




Q.4				
Ans				
	→ B. Marmagao port → C. Marmagao port →			
	C. Jawaharlal Nehru port			
	X D. New Mangalore port			
		Question ID : 1841221712		
Q.5	Clause k of Article 51A "who is a parent or guardian to provide opportunt to his child or, as the case may be, ward between the age of six and four added by the Constitution Amendment Act 2002.			
Ans	X A. 70th			
	★ B. 92nd			
	★ C. 73rd			
	✓ D. 86th			
		Question ID: 1841221715		
Q.6	Which of these is NOT a part of The North-Eastern Plateau Region of Inc	lia?		
Ans	X A. West Bengal			
	X B. Chhotanagpur (Jharkhand)			
	✓ C. Tamil Nadu uplands			
	🗙 D. Odisha Plateau			
		Question ID : 1841221710		
Q.7	Hindustani vocalists Kumar Gandharva's and Bhimsen Joshi's places of	birth is located in		
Ans	X A. Tamil Nadu			
	X B. Kerala			
	X C. Madhya Pradesh			
	✓ D. Karnataka			
		Question ID : 1841221706		
Q.8	Who among the following received Aryabhata Award from Astronautical October 2021?	Society of India in		
Ans	X A. Dr Kamlesh Lulla			
-	X B. Dr Ashwin Vasavada			
	C. Dr B. N. Suresh			
	✓ D. Dr G. Satheesh Reddy			
		Question ID : 1841221697		
		Question D . 1041221037		

Ų.9	Which of these constellations is visible during winter in the early part of like a distorted letter W or M?	of the night and looks
Ans	X A. Orion	
	X B. Canis Major	
	✓ C. Cassiopeia	
	X D. Ursa Minor	
		Question ID : 1841221713
Q.10	As per the estimation of Scholars, what was the total number of wells i	n Mohenjodaro?
Ans	X A. About 150	
	★ B. About 250	
	★ C. About 500	
	✓ D. About 700	
		Question ID : 1841221705
		Question D. 1941221703
Q.11	Which of these group has radial symmetry?	
Ans	X A. Porifera	
	X B. Annelida	
	✓ C. Cnidaria / Coelenterata	
	X D. Platyhelminthes	
		Question ID : 1841221714
		Question 15 . 1041221714
	As per census 2011, what was the literacy rate of Kerala?	
Ans	X A. 96%	
	★ B. 97%	
	★ C. 95%	
	✓ D. 94%	
		Question ID : 1841221711
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Harishena was a poet and a minister at the court of	
Ans	X A. Chandragupta II	
	B. Samudragupta	
	C. Akbar	
	X D. Ashoka	

Q.14	In which year, Industrial Finance Corporation of India (IFCI) became Company?	Public Limited
Ans	X A. 1964	
	★ B. 1985	
	★ C. 1955	
	✓ D. 1993	
		Question ID : 1841221709
Q.15	In how many days, India administered 100 million doses of coronav became the fastest country in the world in administration of corona	
Ans	X A. 100 days	
	X B. 65 days	
	✓ C. 85 days	
	X D. 125 days	
		Question ID: 1841221700
0.16	Which of these is NOT a constitutional body?	
Ans	X A. National Commission for Scheduled Castes	
	X B. National Commission for Scheduled Tribes	
	C. National Commission for Minorities	
	X D. National Commission for Backward Classes	
		Question ID : 1841221716
Q.17	Which of these state government has introduced a 'Back to Work' s have had to quit their jobs due to family reasons?	cheme for women who
Ans	X A. Gujarat	
	X B. Madhya Pradesh	
	✓ C. Rajasthan	
	X D. Karnataka	
		0 11 10 1011001
		Question ID : 1841221699
Q.18	Which of the following are the three new member countries of the locuncil (ICC) inducted in July 2021?	nternational Cricket
Ans	🗙 A. Bermuda, Canada and Switzerland	
	X B. Mongolia, Afghanistan and Switzerland	
	★ C. Mongolia, Bermuda and Canada	
	D. Mongolia, Tajikistan and Switzerland	
		Question ID : 1841221702



Q.4 A salesman completes a journey in 12 hours. He travels first one-third of the journey at the rate of 15 km/hr and second two-third of the journey at the rate of 18 km/hr. What is his total journey in km?

Ans

✓ A. 202.50

X B. 198.75

X C. 210.25

X D. 218.50

Question ID: 1841221729

Q.5 A mixture contains 10% water in the milk. How much water should be added to the mixture of one litre such that the water percentage goes up to 25%?

Ans

✓ A. 200 ml

X B. 350 ml

X C. 250 ml

X D. 400 ml

Question ID: 1841221722

Q.6

The value of $\frac{1.69\times0.81\times1.21}{0.09\times0.13\times0.11} is:$

Ans

X A. 1,325

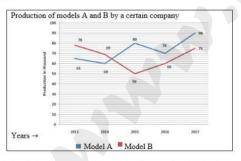
X B. 1,439

X C. 1,278

D. 1,287

Question ID: 1841221717

Q.7 The following line graph shows the two different models A and B produced (in thousands) by a certain company in five years 2013 - 2017.



What is the average number of model A production by the company in all five years 2013-2017?

Ans

X A. 71000

X B. 64200

X C. 66400

✓ D. 73000

Q.8	A banker claims to be loaning money at simple interest, he includes the interest every six
	months for calculating the principal. If he is charging an interest of 8%, then the effective
	rate of interest is:

Ans

X A. 8.08%

X B. 8.32%

✓ C. 8.16%

X D. 8.24%

Question ID: 1841221724

Q.9 The following tables shows the percentage-wise distribution of lecturers and ratio of males and females' lecturers in five different subjects A, B, C, D and E in a certain University during the year 2021. Total number of lecturers is 1200.

Subjects	% distribution	Ratio of Males : Females
A	32	5:3
В	20	1:3
C	18	5:1
D	14	2:5
E	16	3:5

What is the difference between the total number of male lecturers in subjects B and C together and the total number of lecturers in a subject E?

Ans

X A. 52

X B. 56

X C. 45

✓ D. 48

Question ID: 1841221734

Q.10 यदि एक पूर्णांक 'n' क्रमशः 3, 5 और 12 से विभाज्य है, तो इन सभी संख्याओं से विभाज्य अगला बड़ा धनात्मक पूर्णांक क्या होगा?

Ans

X A. n + 120

X B. n + 90

✓ C. n + 60

X D. n + 30

Question ID: 1841221721

Q.11 The curved surface area of a right circular cylinder is same as the surface area of a sphere. If the diameter and height of a right circular cylinder are 8 cm and 16 cm respectively, then what is the radius of the sphere in cm?

Ans

✓ A. 4√2

 \times B. $6\sqrt{2}$

× c. 5√2

× D. 8√2

Q.12 In covering a distance of 360 km, a person A takes 3 hours more than another person B. If A triples his speed, then he would take 2 hours less than B. What is the speed (in km/hr) of A? **B**. 48 X C. 45 X D. 36 Question ID: 1841221728 Q.13 If 4 males or 5 females can cultivate a rose field in 30 days, then how long will 7 male and 10 female take to cultivate it? ✓ A. 8 Ans X B. 12 X C. 7 X D. 9 Question ID: 1841221726 Q.14 The length of a rectangle is two-third of the radius of a circle. The radius of the circle is equal to the side of the square, whose area is $1296 cm^2$. If the breadth of the rectangle is 9 cm, then what is the area (in cm^2) of the rectangle? Ans X A. 234 X B. 207 X C. 189 ✓ D. 216 Question ID: 1841221732 Q.15 The following bar-graph represents the income and expenditures (Rs.in thousands) of five companies A, B, C, D and E in the year 2021: Which company suffered the maximum percentage of loss in the year 2021? Ans X A. C ✓ B. A X C. B X D. E Question ID: 1841221735 Q.16 The following table represents the classification of 100 students on the basis of marks obtained by them in two different papers I and II in an entrance examination during the year 2020.

Subject	Out of 50 marks				
	40 and above	30 and above	20 and above	10 and above	0 and above
Paper I	14	38	68	86	100
Paper II	10	26	60	82	100
Aggregate	12	30	62	84	100

What is the number of students with less than 60% marks in total?

Ans

X B. 54

X C. 38

X D. 62

Question ID: 1841221733

Q.17

If
$$x = \frac{\sqrt{a} + \sqrt{b}}{\sqrt{a} - \sqrt{b}}$$
 and $y = \frac{\sqrt{a} - \sqrt{b}}{\sqrt{a} + \sqrt{b}}$, where $a > b > 0$, then find $\frac{x + y}{0.5}$.

Ans

$$\checkmark$$
 A. $4\left(\frac{a+b}{a-b}\right)$

$$\times$$
 B. $\left(\frac{a+b}{a-b}\right)$

$$\times$$
 c. $2\left(\frac{a+b}{a-b}\right)$

$$\times$$
 D. $4\left(\frac{a-b}{a+b}\right)$

Question ID: 1841221718

Q.18 A shopkeeper sold two chairs for Rs. 4725 each. On one chair, he gains 20% and on the other chair 20% loss What is the total gain or loss percentage in the whole transaction?

Ans

Q.19 A person leaves his office every day at 5.30 p.m. and reaches home at 7.00 p.m. One day, he left his office at 5.30 p.m.

but travelled a third of the distance at $\frac{2}{3}$ of the usual speed. At how many times, his normal speed did he travel the remaining part of the journey if he managed to reach home on time?

Ans

$$\nearrow$$
 A. $\frac{3}{2}$

$$\times$$
 B. $\frac{4}{9}$

$$\times$$
 c. $\frac{4}{3}$

$$\times$$
 D. $\frac{5}{3}$

Question ID: 1841221727

Q.20

Simplify:
$$\frac{2}{5}$$
 of $\frac{4}{9}$ of $5600 - \frac{2}{3}$ of $\frac{1}{5}$ of $\frac{7}{9}$ of 2160

Ans

A. 828

X B. 841 **X** C. 727

✓ D. 772

Question ID: 1841221720

Section: General English

Q.1 Select the correct synonym of the given word.

• •

s 💢 A. famous

B. frail

X C. funny

X D. fluent

Question ID: 1841221741

Q.2 Fill in the blank with the most appropriate word. She is cut out _____a career in acting.

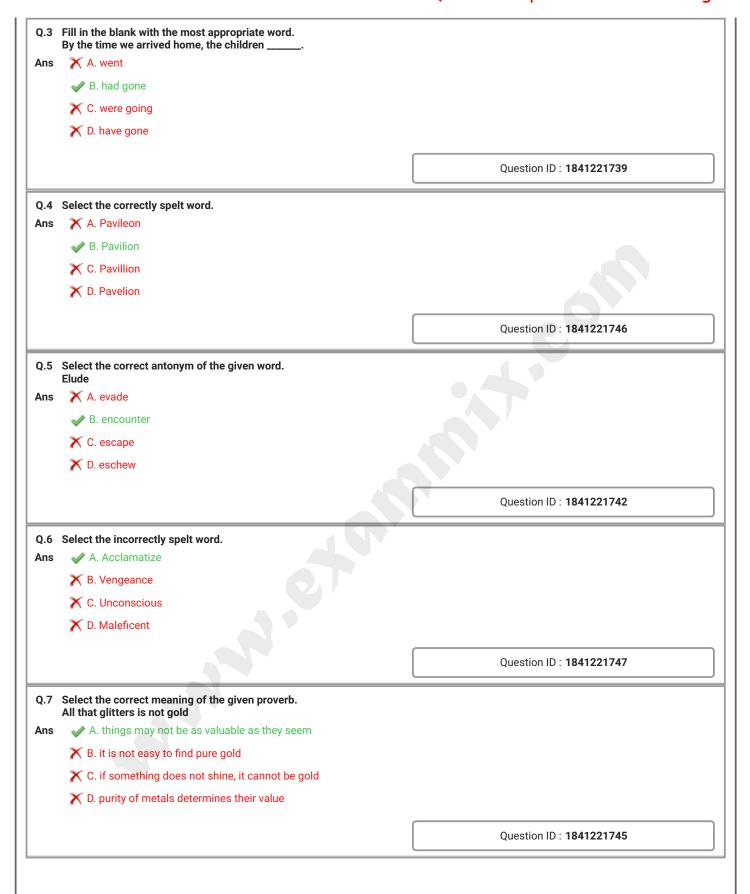
Ans

A. for

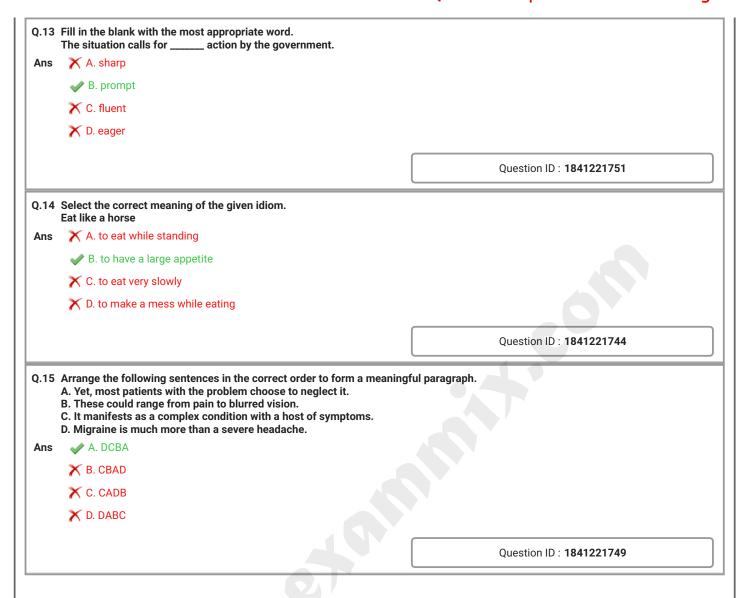
X B. to

X C. at

X D. in



Q.8	Fill in the blank with the most appropriate word. She poetry since she was six years old.	
Ans	X A. wrote	
	X B. is writing	
	C. has been writing	
	X D. was writing	
		0 11 12 12121
		Question ID : 1841221740
Q.9	Identify the grammatically correct sentence.	
Ans	X A. He had take part in the dance competition as he couldn't sprained	d his ankle.
	X B. The dance competition he had sprained in his ankle as he couldn't	't take part.
	X C. He couldn't sprained his ankle in the dance competition as he had	d take part.
	D. He couldn't take part in the dance competition as he had spraine	d his ankle.
		Question ID : 1841221748
Q.10	Fill in the blank with the most appropriate word.	
Ans	Thewas caught with a consignment of A. heroine, heroin	
Allo	X B. heroin, heroin	
	C. heroine, heroine	
	D. heroin, heroine	
	D. Heroni, Heronie	
		Question ID : 1841221743
Q.11	Fill in the blank with the most appropriate word. It is time to go to work	
Ans	✓ A. now	
	X B. yet	
	X C. still	
	X D. often	
		Question ID : 1841221738
Q.12	Fill in the blank with the most appropriate word. My cousin that she had been neglecting her studies.	
Ans	✓ A. confessed	
	★ B. continued	
	X C. consoled	
	X D. conducted	
		Question ID: 1841221750



Read the passage given below and answer the questions that follow. Each drop represents a little bit of creation and of life itself. When the monsoon brings to northern India the first rains of summer, the parched earth opens its pores and quenches its thirst with a hiss of ecstasy. After baking in the sun for the last few months, the land looks cracked, dusty and tired. Now, almost overnight, new grass springs up, there is renewal everywhere, and the damp earth releases a fragrance sweeter than any devised by man. Water brings joy to earth, grass, leaf, bud, blossom, insect, bird, animal and the pounding heart of man. Small children run out of their homes to romp naked in the rain. Buffaloes, which have spent the summer listlessly around lakes gone dry, now plunge into a heaven of muddy water. Soon the lakes and rivers will overflow with the monsoon's generosity. Trekking in the Himalayan foothills, I recently walked for kilometres without encountering habitation. I was just scolding myself for not having brought along a water bottle, when I came across a patch of green on a rock face. I parted a curtain of tender maiden hair fern and discovered a tiny spring issuing from the rock –nectar for the thirsty traveller.

I stayed there for hours, watching the water descend, drop by drop, into a tiny casement in the rocks. Each drop reflected creation. That same spring, I later discovered, joined other springs to form a swift, tumbling stream, which went cascading down the hill into other streams until, in the plains, it became part of a river. And that river flowed into another mightier river that kilometres later emptied into the ocean. Be like water, taught Laotzu, philosopher and founder of Taoism. Soft and limpid, it finds its way through, over or under any obstacle. It does not quarrel; it simply moves on.

SubQuestion No: 16

Q.16 Which of the following words is most similar in meaning to the word 'pounding' as used in para 2 of the passage?

Ans

🟋 A. shaking

B. palpitating

X C. benumbing

X D. sinking

Question ID: 1841221756

Comprehension:

Read the passage given below and answer the questions that follow. Each drop represents a little bit of creation and of life itself. When the monsoon brings to northern India the first rains of summer, the parched earth opens its pores and quenches its thirst with a hiss of ecstasy. After baking in the sun for the last few months, the land looks cracked, dusty and tired. Now, almost overnight, new grass springs up, there is renewal everywhere, and the damp earth releases a fragrance sweeter than any devised by man. Water brings joy to earth, grass, leaf, bud, blossom, insect, bird, animal and the pounding heart of man. Small children run out of their homes to romp naked in the rain. Buffaloes, which have spent the summer listlessly around lakes gone dry, now plunge into a heaven of muddy water. Soon the lakes and rivers will overflow with the monsoon's generosity. Trekking in the Himalayan foothills, I recently walked for kilometres without encountering habitation. I was just scolding myself for not having brought along a water bottle, when I came across a patch of green on a rock face. I parted a curtain of tender maiden hair fern and discovered a tiny spring issuing from the rock –nectar for the thirsty traveller.

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SubQuestion No: 17

Q.17 The tiny spring finally became a part of:

Ans

A. the ocean

X B. a river

💢 C. a stream

🟋 D. a hill

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SubQuestion No: 18

Q.18 What important lesson can we learn from water?

Ans A. to move on, making our way through obstacles

X B. to lose our identity

X C. to value natural resources

X D. to rejuvenate others

Question ID: 1841221757

Comprehension:

Read the passage given below and answer the questions that follow. Each drop represents a little bit of creation and of life itself. When the monsoon brings to northern India the first rains of summer, the parched earth opens its pores and quenches its thirst with a hiss of ecstasy. After baking in the sun for the last few months, the land looks cracked, dusty and tired. Now, almost overnight, new grass springs up, there is renewal everywhere, and the damp earth releases a fragrance sweeter than any devised by man. Water brings joy to earth, grass, leaf, bud, blossom, insect, bird, animal and the pounding heart of man. Small children run out of their homes to romp naked in the rain. Buffaloes, which have spent the summer listlessly around lakes gone dry, now plunge into a heaven of muddy water. Soon the lakes and rivers will overflow with the monsoon's generosity. Trekking in the Himalayan foothills, I recently walked for kilometres without encountering habitation. I was just scolding myself for not having brought along a water bottle, when I came across a patch of green on a rock face. I parted a curtain of tender maiden hair fern and discovered a tiny spring issuing from the rock –nectar for the thirsty traveller.

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SubQuestion No: 19

Q.19 The tiny spring issuing from the rock was hidden by:

Ans

A. Fern

X B. Curtain

🗙 C. Grass

🟋 D. Mud

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SubQuestion No: 20

Q.20 How do children respond to the first rain?

Ans X A. by jumping into the muddy water

B. by running and playing in the rain

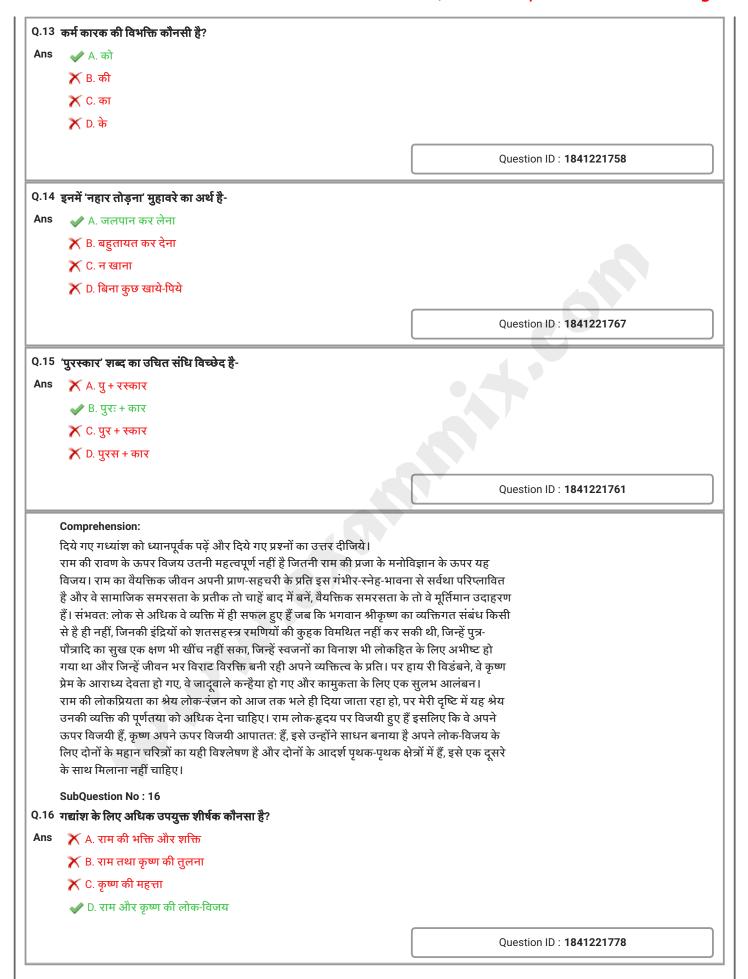
X C. by sniffing the fragrance of damp earth

X D. by bathing in lakes and rivers

Question ID: 1841221755

Q.3	किस विकल्प में लोकोक्ति और उसका अर्थ सुमेलित नहीं है?	
Ans	🗙 A. आवां का आवां बिगाड़ना – परिवार के सभी लोगों का बिगड़ जाना	
	🗙 B. आगे कुआं, पीछे खाई – दोनों ओर विपत्ति होना	
	🥓 C. एक अनार सौ बीमार – बेमेल चीजें जिनमें सामंजस्य का आभाव	
	💢 D. अपना हाथ जगन्नाथ – अपना काम अपने हाथों से करना फलदाई	
		Question ID : 1841221768
Q.4	'संवाददाता' का पर्यायवाची शब्द नहीं है-	
Ans	🗙 A. समाचारदाता	
	🗙 B. नमानिगार	
	✓ C. विवर्धक	
	🗙 D. प्रतिवेदक	
		Question ID: 1841221764
Q.5	मुझे संस्कृत का ज्ञान नहीं है। उचित शब्द का चयन कर वाक्य पूर्ण कीजिए।	
Ans	X A. मानसिक	
	🗙 B. भौतिकी	
	X C. व्यवहारिक	
	✓ D. व्यावहारिक	
		Question ID : 1841221771
Q.6	इनमें कौनसा अनिश्चित संख्यावाचक विशेषण है?	·
Ans	🗙 A. बहुत दूध	
	🗙 B. सारा देश	
	✓ C. बहुत आदमी	
	🗙 D. सब जंगल	
		Question ID : 1841221760
Q.7	इनमें 'मशहूर' का पर्यायवाची शब्द कौनसा है?	
Ans	X A. ठट्ठेबाज	
	X B. नवनीत	
	✓ С. लब्ध प्रतिष्ठ	
	X D. ख्याति	
		1

Q.8	कारक प्रयोग की दृष्टि से अशुद्ध वाक्य है-	
Ans	💢 A. आपने एक को भी नहीं देखा।	
	✔ B. मैं यह पुस्तक पढ़ा हूँ।	
	💢 C. बहन ने कहा है कि कल से पढाई होगी।	
	💢 D. बालिका ने कहा था।	
		Out at law ID a 4044004750
		Question ID : 1841221759
Q.9	किस वाक्य में 'मत' (आज्ञा के लिए) का प्रयोग अशुद्ध और अनुचित है?	
Ans	🔀 A. भैंने उसको बोला कि कल से मत आना।	
	🔀 B. आप यहाँ से मत जाएइ।	
	✓ C. कार मत तेज मत चलाओ।	
	🗙 D. जब तक मैं नहीं आऊँ तुम दक्ष्तर बंद मत करना।	
		Question ID : 1841221772
Q.10	किस विकल्प में शब्द का संधि विच्छेद अनुचित है?	
Ans	X A. नम: + कार = नमस्कार	
	✓ B. विस्म + अरण = विस्मरण	
	🗙 C. अहन् + रात्र = अहोरात्र	
	🗙 D. वि + सर्ज = विसर्ग	
		Question ID : 1841221762
Q.11	'अतिवृष्टि' का विलोम युग्म कौनसा है?	
Ans	🗙 A. अकाल	
	৵ В. अनावृष्टि	
	🗙 C. सूखा	
	🗙 D. उपवृष्टि	
		Question ID : 1841221765
Q.12	किस वाक्य में कर्ता और क्रिया का समन्वय नहीं है?	
Ans	🗙 A. सुदामा, राम या श्याम जाएगा।	
	४ B. राम और सीता आई।	
	🗙 C. अध्यापक, कर्मचारी अथवा छात्रा खेल रही थी।	
	🗙 D. एक झोंपड़ी और दो तम्बू जल गए।	
	W S	
		Question ID: 1841221770



दिये गए गध्यांश को ध्यानपूर्वक पढ़ें और दिये गए प्रश्नों का उत्तर दीजिये। राम की रावण के ऊपर विजय उतनी महत्वपूर्ण नहीं है जितनी राम की प्रजा के मनोविज्ञान के ऊपर यह विजय। राम का वैयक्तिक जीवन अपनी प्राण-सहचरी के प्रति इस गंभीर-स्नेह-भावना से सर्वथा परिप्लावित है और वे सामाजिक समरसता के प्रतीक तो चाहें बाद में बनें, वैयक्तिक समरसता के तो वे मूर्तिमान उदाहरण हैं। संभवत: लोक से अधिक वे व्यक्ति में ही सफल हुए हैं जब कि भगवान श्रीकृष्ण का व्यक्तिगत संबंध किसी से हैं ही नहीं, जिनकी इंद्रियों को शतसहस्त्र रमणियों की कुहक विमिथत नहीं कर सकी थी, जिन्हें पुत्र-पौत्रादि का सुख एक क्षण भी खींच नहीं सका, जिन्हें स्वजनों का विनाश भी लोकहित के लिए अभीष्ट हो गया था और जिन्हें जीवन भर विराट विरक्ति बनी रही अपने व्यक्तित्व के प्रति। पर हाय री विडंबने, वे कृष्ण प्रेम के आराध्य देवता हो गए, वे जाद्वाले कन्हैया हो गए और कामुकता के लिए एक सुलभ आलंबन। राम की लोकप्रियता का श्रेय लोक-रंजन को आज तक भले ही दिया जाता रहा हो, पर मेरी दृष्टि में यह श्रेय उनकी व्यक्ति की पूर्णतया को अधिक देना चाहिए। राम लोक-हृदय पर विजयी हुए हैं इसलिए कि वे अपने ऊपर विजयी हैं, कृष्ण अपने ऊपर विजयी आपाततः हैं, इसे उन्होंने साधन बनाया है अपने लोक-विजय के लिए दोनों के महान चिरत्रों का यही विश्लेषण है और दोनों के आदर्श पृथक-पृथक क्षेत्रों में हैं, इसे एक दूसरे के साथ मिलाना नहीं चाहिए।

SubQuestion No: 17

Q.17 राम लोक-हृदय पर क्यों विजयी हुए हैं?

Ans 🔀 A. इसलिए की वे प्रजा को महत्व देते थे।

🥒 B. इसलिए कि वे अपने ऊपर विजयी हैं।

X C. इसलिए कि लोक से अधिक वे व्यक्ति में ही सफल हुए हैं।

\chi D. इसलिए के उन्होंने रावण को पराजित किया था।

Question ID: 1841221776

Comprehension:

दिये गए गध्यांश को ध्यानपूर्वक पढ़ें और दिये गए प्रश्नों का उत्तर दीजिये। राम की रावण के ऊपर विजय उतनी महत्वपूर्ण नहीं है जितनी राम की प्रजा के मनोविज्ञान के ऊपर यह विजय। राम का वैयक्तिक जीवन अपनी प्राण-सहचरी के प्रति इस गंभीर-स्नेह-भावना से सर्वथा परिप्लावित है और वे सामाजिक समरसता के प्रतीक तो चाहें बाद में बनें, वैयक्तिक समरसता के तो वे मूर्तिमान उदाहरण हैं। संभवत: लोक से अधिक वे व्यक्ति में ही सफल हुए हैं जब कि भगवान श्रीकृष्ण का व्यक्तिगत संबंध किसी से हैं ही नहीं, जिनकी इंद्रियों को शतसहस्त्र रमणियों की कुहक विमिथत नहीं कर सकी थी, जिन्हें पुत्र-पौत्रादि का सुख एक क्षण भी खींच नहीं सका, जिन्हें स्वजनों का विनाश भी लोकहित के लिए अभीष्ट हो गया था और जिन्हें जीवन भर विराट विरक्ति बनी रही अपने व्यक्तित्व के प्रति। पर हाय री विडंबने, वे कृष्ण प्रेम के आराध्य देवता हो गए, वे जाद्वाले कन्हैया हो गए और कामुकता के लिए एक सुलभ आलंबन। राम की लोकप्रियता का श्रेय लोक-रंजन को आज तक भले ही दिया जाता रहा हो, पर मेरी दृष्टि में यह श्रेय उनकी व्यक्ति की पूर्णतया को अधिक देना चाहिए। राम लोक-हदय पर विजयी हुए हैं इसलिए कि वे अपने ऊपर विजयी हैं, कृष्ण अपने ऊपर विजयी आपातत: हैं, इसे उन्होंने साधन बनाया है अपने लोक-विजय के लिए दोनों के महान चिरत्रों का यही विश्लेषण है और दोनों के आदर्श पृथक-पृथक क्षेत्रों में हैं, इसे एक दूसरे के साथ मिलाना नहीं चाहिए।

SubQuestion No: 18

Q.18 गद्यांश में 'परिप्लावित' शब्द का अर्थ है -

Ans

🗙 A. आश्रित

B. आसक्त

X C. मोहित

🥒 D. सराबोर

दिये गए गध्यांश को ध्यानपूर्वक पढ़ें और दिये गए प्रश्नों का उत्तर दीजिये। राम की रावण के ऊपर विजय उतनी महत्वपूर्ण नहीं है जितनी राम की प्रजा के मनोविज्ञान के ऊपर यह विजय। राम का वैयक्तिक जीवन अपनी प्राण-सहचरी के प्रति इस गंभीर-स्नेह-भावना से सर्वथा परिप्लावित है और वे सामाजिक समरसता के प्रतीक तो चाहें बाद में बनें, वैयक्तिक समरसता के तो वे मूर्तिमान उदाहरण हैं। संभवत: लोक से अधिक वे व्यक्ति में ही सफल हुए हैं जब कि भगवान श्रीकृष्ण का व्यक्तिगत संबंध किसी से है ही नहीं, जिनकी इंद्रियों को शतसहस्त्र रमणियों की कुहक विमथित नहीं कर सकी थी, जिन्हें पुत्र-पौत्रादि का सुख एक क्षण भी खींच नहीं सका, जिन्हें स्वजनों का विनाश भी लोकहित के लिए अभीष्ट हो गया था और जिन्हें जीवन भर विराट विरक्ति बनी रही अपने व्यक्तित्व के प्रति। पर हाय री विडंबने, वे कृष्ण प्रेम के आराध्य देवता हो गए, वे जादूवाले कन्हैया हो गए और कामुकता के लिए एक सुलभ आलंबन। राम की लोकप्रियता का श्रेय लोक-रंजन को आज तक भले ही दिया जाता रहा हो, पर मेरी दृष्टि में यह श्रेय उनकी व्यक्ति की पूर्णतया को अधिक देना चाहिए। राम लोक-हृदय पर विजयी हुए हैं इसलिए कि वे अपने ऊपर विजयी हैं, कृष्ण अपने ऊपर विजयी आपाततः हैं, इसे उन्होंने साधन बनाया है अपने लोक-विजय के लिए दोनों के महान चरित्रों का यही विश्लेषण है और दोनों के आदर्श पृथक-पृथक क्षेत्रों में हैं, इसे एक दूसरे के साथ मिलाना नहीं चाहिए।

SubQuestion No: 19

Q.19 राम किसके मूर्तिमान उदाहरण हैं?

💢 A. सामाजिक समरसता के

🗙 B. सहचरी के प्रति गंभीर-स्नेह-भावना के

🗙 C. राम की रावण के ऊपर विजय के

🥒 D. वैयक्तिक समरसता के

Question ID: 1841221775

Comprehension:

दिये गए गध्यांश को ध्यानपूर्वक पढ़ें और दिये गए प्रश्नों का उत्तर दीजिये। राम की रावण के ऊपर विजय उतनी महत्वपूर्ण नहीं है जितनी राम की प्रजा के मनोविज्ञान के ऊपर यह विजय। राम का वैयक्तिक जीवन अपनी प्राण-सहचरी के प्रति इस गंभीर-स्नेह-भावना से सर्वथा परिप्लावित है और वे सामाजिक समरसता के प्रतीक तो चाहें बाद में बनें, वैयक्तिक समरसता के तो वे मूर्तिमान उदाहरण हैं। संभवत: लोक से अधिक वे व्यक्ति में ही सफल हुए हैं जब कि भगवान श्रीकृष्ण का व्यक्तिगत संबंध किसी से है ही नहीं, जिनकी इंद्रियों को शतसहस्त्र रमणियों की कुहक विमथित नहीं कर सकी थी, जिन्हें पुत्र-पौत्रादि का सुख एक क्षण भी खींच नहीं सका, जिन्हें स्वजनों का विनाश भी लोकहित के लिए अभीष्ट हो गया था और जिन्हें जीवन भर विराट विरक्ति बनी रही अपने व्यक्तित्व के प्रति। पर हाय री विडंबने, वे कृष्ण प्रेम के आराध्य देवता हो गए, वे जादूवाले कन्हैया हो गए और कामुकता के लिए एक सुलभ आलंबन। राम की लोकप्रियता का श्रेय लोक-रंजन को आज तक भले ही दिया जाता रहा हो, पर मेरी दृष्टि में यह श्रेय उनकी व्यक्ति की पूर्णतया को अधिक देना चाहिए। राम लोक-हृदय पर विजयी हुए हैं इसलिए कि वे अपने ऊपर विजयी हैं, कृष्ण अपने ऊपर विजयी आपातत: हैं, इसे उन्होंने साधन बनाया है अपने लोक-विजय के लिए दोनों के महान चरित्रों का यही विश्लेषण है और दोनों के आदर्श पृथक-पृथक क्षेत्रों में हैं, इसे एक दूसरे के साथ मिलाना नहीं चाहिए।

SubQuestion No: 20

Q.20 किसे राम की लोकप्रियता का अधिक श्रेय देना चाहिए?

Ans

🗙 B. लोक रंजन को

🗶 C. सीता की पतिव्रता को

X D. रावण के ज्ञान को

Question ID: 1841221774

Section: Discipline1

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Q.1 The slope of the lines passing through the points (3, -2) and (7, -2) is:
Ans

✓ B. 0

       X C. 4
       X D. 2/3
                                                                                              Question ID: 1841221788
Q.2 The heat produced in a resistor by current in time t is given by:
      \times A. H = IRt joule
      \times B. H = I^2R/t joule
      \times c. H = IR joule
       ✓ D. H = I^2 Rt joule
                                                                                              Question ID: 1841221784
Q.3 The unit of co-efficient of friction in S I system of unit is:
      X A. N/m
Ans
       B. unit less
       X C. N-m
       X D. N
                                                                                              Question ID: 1841221795
Q.4 What is the molar mass of water?
      X A. 6.02 gmol<sup>-1</sup>
       X B. 36.02 gmol<sup>-1</sup>

✓ C. 18.02 gmol<sup>-1</sup>

       X D. 3.0 gmol<sup>-1</sup>
                                                                                              Question ID: 1841221780
Q.5 The product of mass of a body and its velocity is called ____.
      X A. Moment
       X B. Impulse
       C. Work
       D. Momentum
                                                                                              Question ID: 1841221796
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Q.6 What is the order of differential equation,

$$\left(\frac{d^2y}{dx^2}\right)^3 + y = 0$$

Ans

Question ID: 1841221790

Q.7 According to Biot-Savart law, the magnitude of the field in SI unit is given by:

Ans

$$\checkmark A dB = \frac{\mu_0 I dl \sin \theta}{4\pi r^2}$$

$$B. \ dB = \frac{\mu_0 \ I \ dl \sin \theta}{4\pi \ r}$$

$$\times c. dB = \frac{4\pi \,\mu_0 \,I \,dl \sin \theta}{r^2}$$

$$\nearrow D dB = \frac{4\pi \,\mu_0 \,I \,dl \sin \theta}{r}$$

Question ID: 1841221785

Q.8 According to Coulomb's law, the force between two point charges q_1 and q_2 separated by a distance r is given by:

Ans

$$\times$$
 A. $F = k \frac{q_1 q_2}{r}$

$$\checkmark B. F = k \frac{q_1 q_2}{r^2}$$

$$\times$$
 c. $F = kq_1q_2r$

$$\times$$
 D. $F = kq_1q_2$

Question ID: 1841221783

Q.9 If n_p and n_e is the number of holes and electrons respectively in an intrinsic semiconductor then:

Ans

$$\times$$
 A. $n_p n_e = 1$

$$ightarrow$$
 B. $n_p > n_e$

$$\checkmark$$
 c. $n_p=n_e$

$$imes$$
 D. $n_p < n_e$

Q.10 The direction of magnetic lines of force around a straight current carrying conductor may be determined by:

X A. Fleming's left hand rule

B. Cork screw rule

X C. Faraday's law

X D. Lenz's law

Question ID: 1841221798

Q.11 The scalar product of two non zero vectors will be zero, if and only if the angle between two

Ans

X A. 0 degree

B. 90 degree

X C. 180 degree X D. 45 degree

Question ID: 1841221789

0.12 Which term of the series 2 + 5 + 8 + ----- is 50?

Ans X A. 16

✓ B. 17

X C. 18

X D. 15

Question ID: 1841221787

Q.13 $\int \frac{dx}{\sqrt{1-x^2}} = ?$

Ans \times A. $\cos^{-1} x + C$

 \times B. $-\tan x + C$

 \checkmark C. $-\cos^{-1}x + C$

 \times D. $tan^{-1}x + C$

Question ID: 1841221791

Q.14 One mol of water molecule contains:

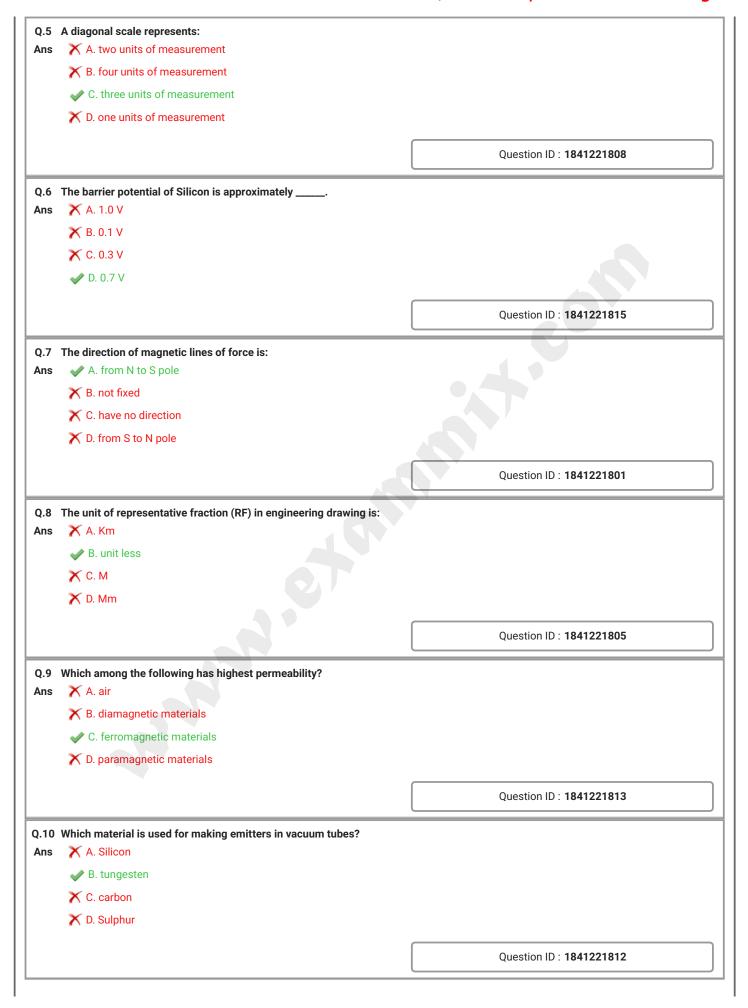
X A. 3.022 ×10²³ molecules

X C. 1.66 ×10²³ molecules

X D. 1.66 ×10¹² molecules

Ans	The second orbit of an atom contains 6 electrons. If it's atomic n of protons in it's nucleus will be:	indos is 17, then the number			
	★ A. 6				
	✓ B. 8✓ C. 9				
	X D. 17				
		Question ID : 1841221781			
Q.16	The oxygen dissolved in cold water can reach a concentration up	pto:			
Ans	X A. 1 parts per million (ppm)				
	X B. 100 parts per million (ppm)				
	C. 10 parts per million (ppm)				
	X D. 3 parts per million (ppm)				
		Question ID: 1841221782			
 ວ.17	Find the modulus of the complex number 4 - 3i				
Ans	✓ A. 5				
	X B. 4				
	X 0.1				
	X D. 7				
		Question ID : 1841221792			
Q.18	The tendency of forces is not only to move a body but also to rot	tate the body is called:			
Ans	✓ A. Moment				
	X B. Force				
	X C. Inertia				
	X D. Fulcrum				
		Question ID : 1841221794			

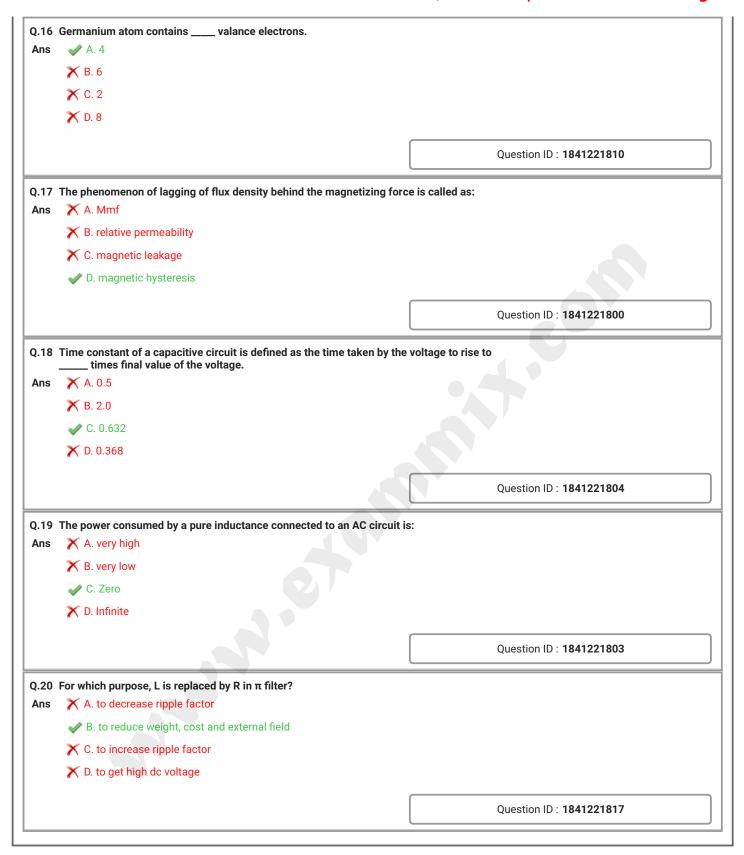
Q.1 In the aligned system of placing dimensions on a prepared drawing _ X A. the dimensions are placed parallel to the dimension lines X B. the dimensions are placed alwayshorizontal C. the dimensions are placed perpendicular to the dimension lines X D. the dimensions are placed always vertical Question ID: 1841221807 Q.2 Two parallel conductors carrying current in the same direction: X A. experiences no force B. attract each other X C. repel each other X D. sometimes attract and sometime repel Ouestion ID: 1841221799 Q.3 By narrowing the space charge region, the amount of reverse voltage needed to cause zener breakdown: A. Decreases Ans X B. reduces to zero X C. Increases X D. has no effect Question ID: 1841221818 Q.4 In MKS, unit of resistivity is: \times A. $\frac{\Omega}{m^2}$ ✓ B. Ω — m \times c. $\frac{\Omega}{m}$ X D. Q Question ID: 1841221809



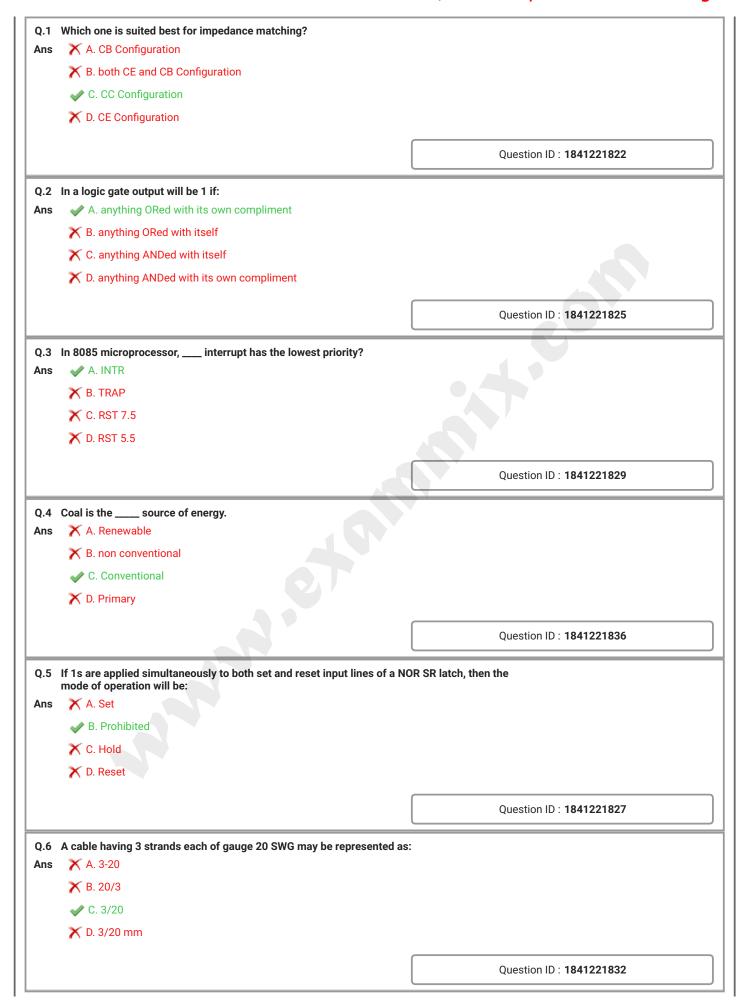
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Q.11 An AC series circuit consists of a 100 ohm resistance and a capacitor of 2 micrfarad. What
     will be its time constant?
Ans \times A. 2 \times 10<sup>-6</sup> sec
       \times c. 2 \times 10<sup>-8</sup> sec
      \times D. 2 \times 10^{-5} sec
                                                                                            Question ID: 1841221802
Q.12 Curie temperature is the temperature at which the magnetic material:
      X A. starts magnetizing
       X B. behaves like insulators
       C. looses their magnetism
       X D. fully magnetized
                                                                                           Question ID: 1841221814
Q.13 The dipoles of a dielectric are oriented in the direction of electric field, this process is
     called:
      X A. Permittivity
Ans
       X B. dielectric constant
       C. Polarization
       D. Magnetization
                                                                                           Question ID: 1841221811
Q.14
      In the convention of lines in engineering drawing, the above figure represents.
     X A. construction line
       X B. centre line
       C. hidden line
       X D. dimension line
                                                                                           Ouestion ID: 1841221806
Q.15 Rectification efficiency and ripple factor of a full wave rectifier ____ and ____ respectively.
      X A. 100%, 0.482

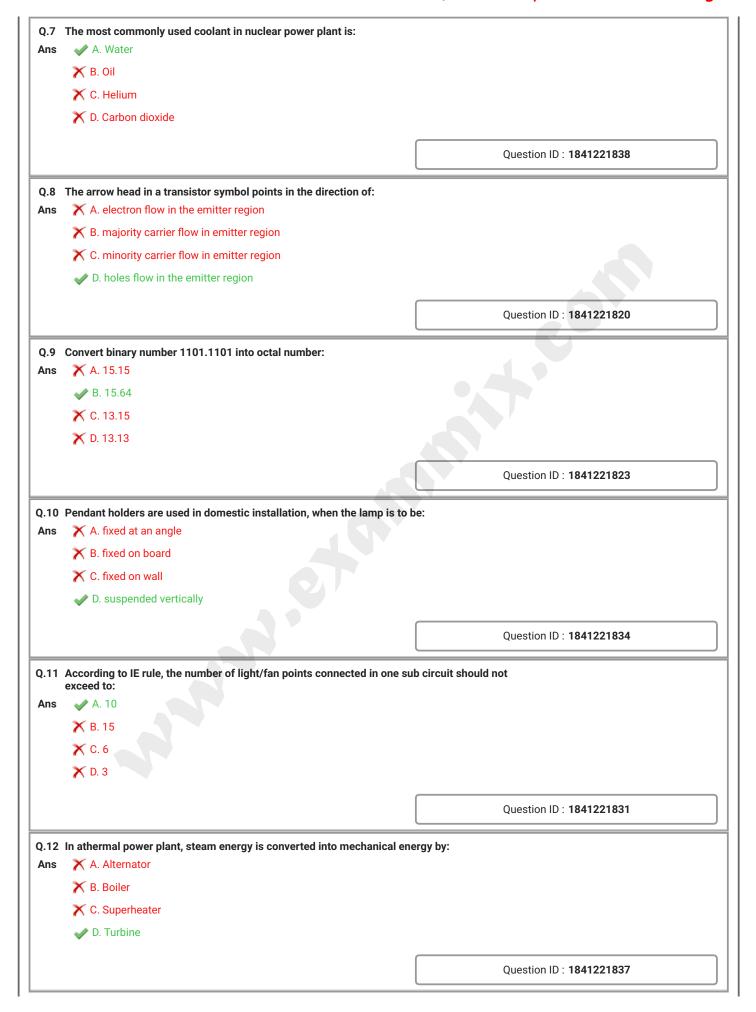
✓ B. 81.2% , 0.482

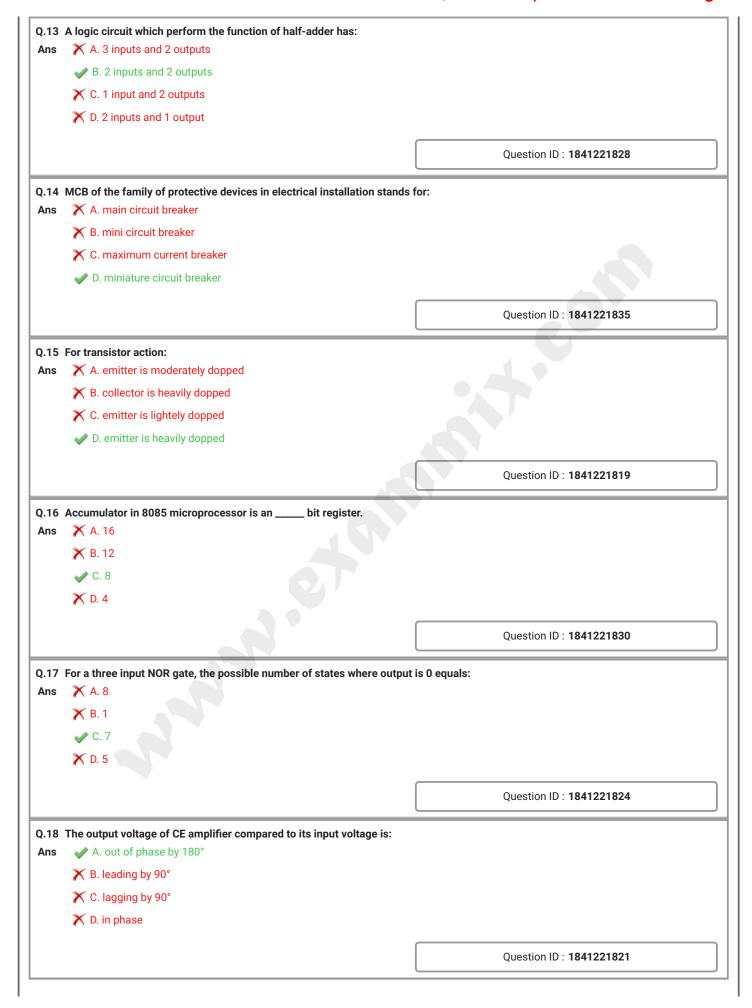
       X C. 91.6%, 1.21
       X D. 40.6%, 1.21
                                                                                            Question ID: 1841221816
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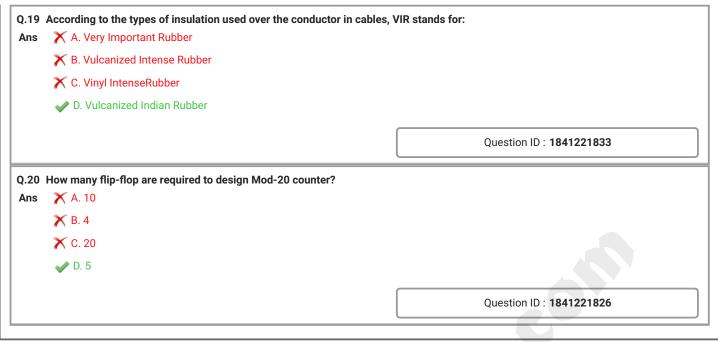


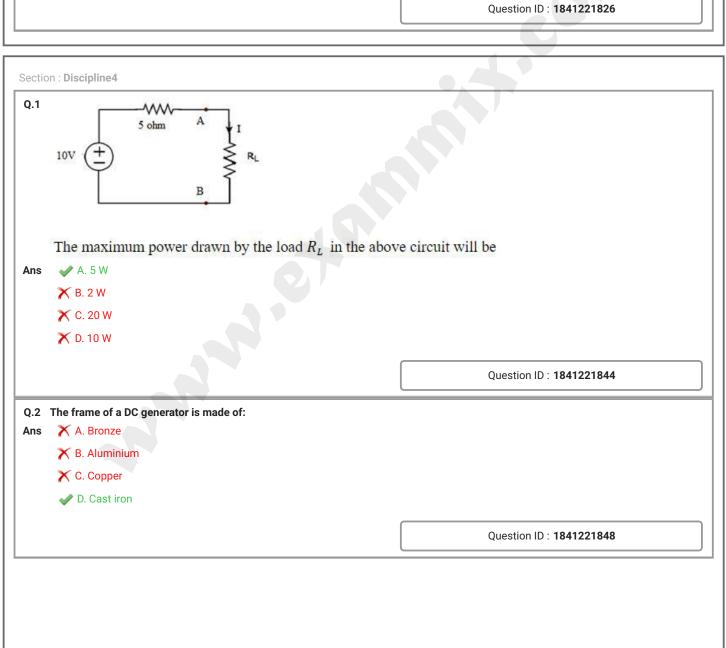
Section: Discipline3



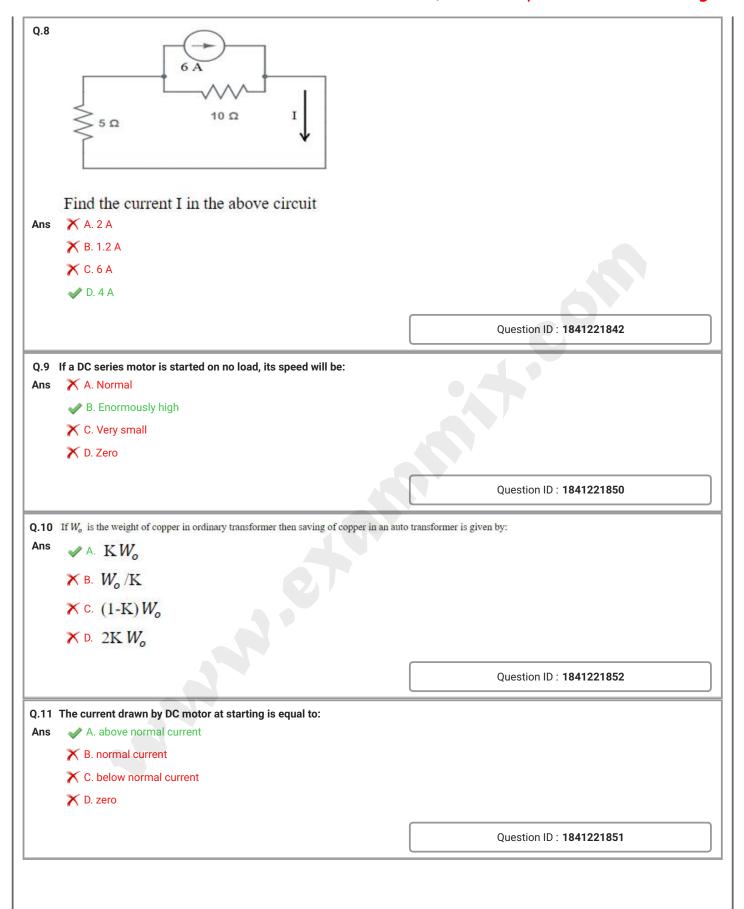


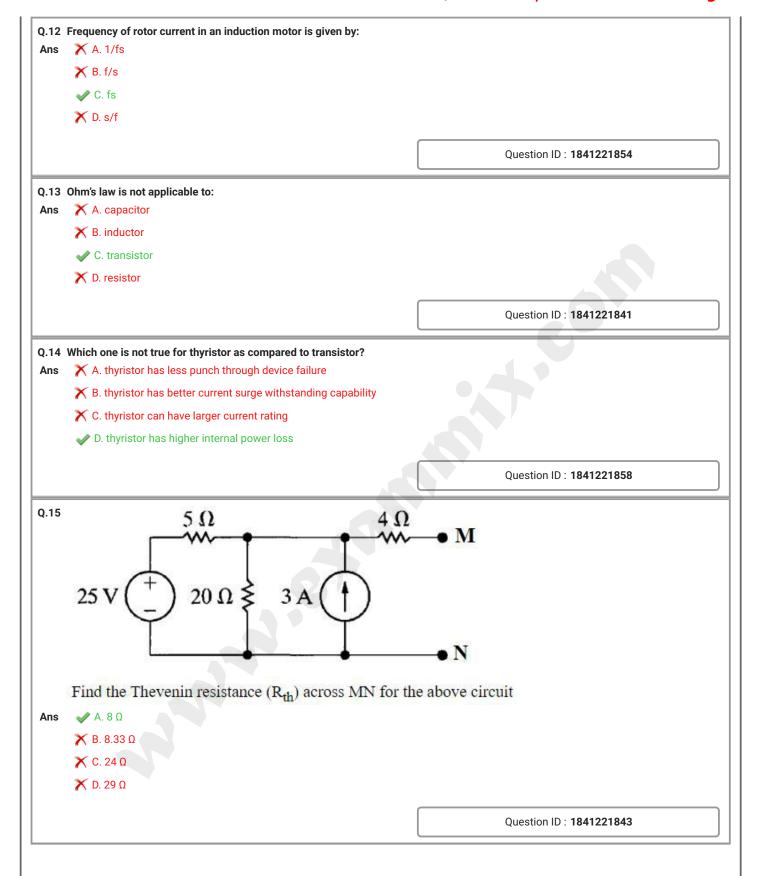






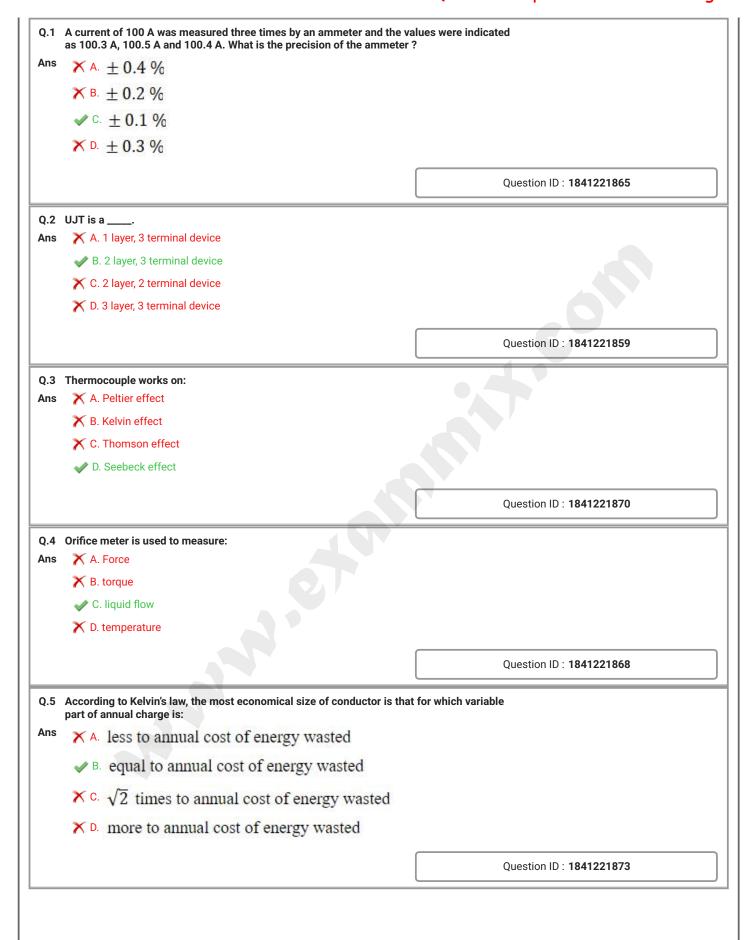
3 The maximum demand on a plant is 50 kW and load factor is 0.5. find the total energy generated in a year:				
\times A. 8.76 × 10 ⁵ kWh				
\checkmark B. 2.19 \times 10 ⁵ kWh				
\times c. 3.65 \times 10 ⁵ kWh				
\times D. 9.125 \times 10 ⁵ kWh				
	Question ID : 1841221840			
In a three phase induction motor, speed of the rotating magnetic field is called :				
D. effective speed				
	Question ID : 1841221853			
The algebraic sum of all the currents meeting at a point is zero, known	as:			
✓ A. Kirchhof's law				
➤ B. Voltage law				
★ C. Joule's law				
X D. Coulomb's law				
	Question ID : 1841221845			
	Question is 1041221040			
A series AC circuit connected to 220 V, 50 Hz supply consists of a resistance of 100 Ω , inductive reactance of 10 Ω and a capacitive reactance of 10 Ω . Calculate the power factor of the circuit.				
★ A. 0.8				
★ B. 0.1				
* 0 1 0				
✓ C. 1.0				
C. 1.0 ★ D. 0.5				
	Question ID : 1841221847			
★ D. 0.5				
Name the huge pipe used in a hydro power plant for bringing the water				
Name the huge pipe used in a hydro power plant for bringing the water A. pen stock				
Name the huge pipe used in a hydro power plant for bringing the water A. pen stock B. tail race				
	generated in a year: XA. 8.76 × 10 ⁵ kWh B. 2.19 × 10 ⁵ kWh C. 3.65 × 10 ⁵ kWh D. 9.125 × 10 ⁵ kWh A. slip speed B. synchronous speed C. shaft speed D. effective speed The algebraic sum of all the currents meeting at a point is zero, known A. Kirchhof's law B. Voltage law C. Joule's law D. Coulomb's law A series AC circuit connected to 220 V, 50 Hz supply consists of a resis inductive reactance of 10 Ω and a capacitive reactance of 10 Ω. Calculated the circuit. A. 0.8			

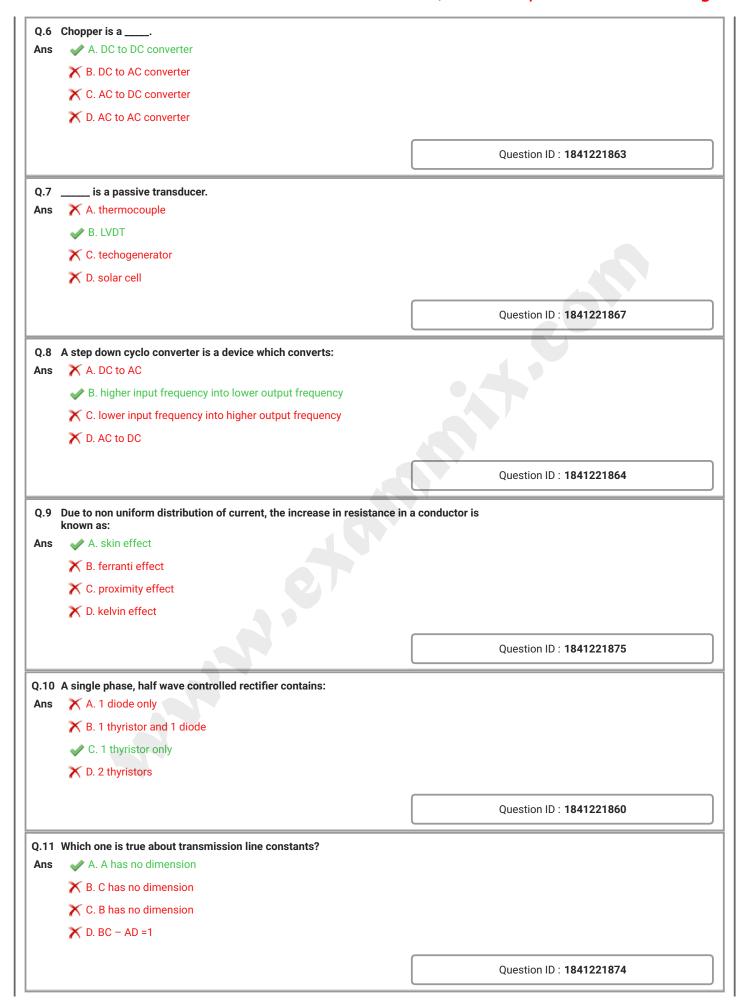




Q.16	For an ideal DC generator, voltage regulation should be			
Ans	X A. positive			
	X B. infinite			
	X C. negative			
	✓ D. zero			
		0 11 12 1011010		
		Question ID: 1841221849		
Q.17	The torque developed by split phase induction motor is proportional to	o the:		
Ans	\nearrow A. cosine of the angle between I_m and I_s			
	\checkmark B. sine of the angle between I_m and I_s			
	\times c auxiliary winding current I_s			
	\nearrow D. main winding current I_m			
	main whiching current Im			
		Question ID: 1841221857		
O 10	In a supply and the minimum armature surrent corresponds to:			
Q. 16 Ans	In a synchronous motor minimum armature current corresponds to: X A. leading power factor only			
	✓ B. unity power factor only			
	C. Lagging or leading power factor			
	X D. lagging power factor only			
	, consigning points tracted only			
		Question ID: 1841221856		
Q.19	Buchholz relay is:			
Ans	X A. frequency sensitive device			
	X B. voltage sensitive device			
	C. current sensitive device			
	D. gas actuated device			
		Question ID : 1841221855		
Q.20	If the frequency of AC supply is increased then the resistance of the c	ircuit will		
Ans	X A. first increases then decreases			
	X B. Increase			
	C. Decrease			
	✓ D. unaffected			
		Question ID: 1841221846		

Section : Discipline5





Q.12	Thermistor has the property of				
Ans	X A. no resistance				
	X B. zero temperature coefficient				
	C. negative temperature coefficient				
	X D. positive temperature coefficient				
		Question ID : 1841221869			
		Queen and a second			
	In case of a transmission line, the purpose of transposition of unsymmto	netrical conductors is			
Ans	X A. reduce corona				
	X B. reduce skin effect				
	X C. reduce resistance				
	✓ D. balance line voltage drop				
		Question ID: 1841221878			
0.14	Thyristors can be considered as a/an:				
Ans	X A. transistor				
	X B. controlled transistor				
	✓ C. controlled switch				
	X D. Amplifier				
		Question ID : 1841221862			
Q.15	A strain gauge of gauge factor 4 is attached to a metal wire that stret	ches from 10 cm to			
Ans	10.1 cm. Calculate the percentage change in its resistance. A. 3%				
7410	✓ B. 4%				
	★ C. 1%				
	▼ D. 2%				
		Question ID: 1841221872			
0.16	The maximum output voltage of a single phase half bridge inverter as	compared to the			
	single phase full bridge inverter is:	recompared to the			
Ans	✓ A. Half				
	X B. four times				
	C. Same				
	X D. Double				
		Question ID : 1841221861			
		Question in . 1041221001			

