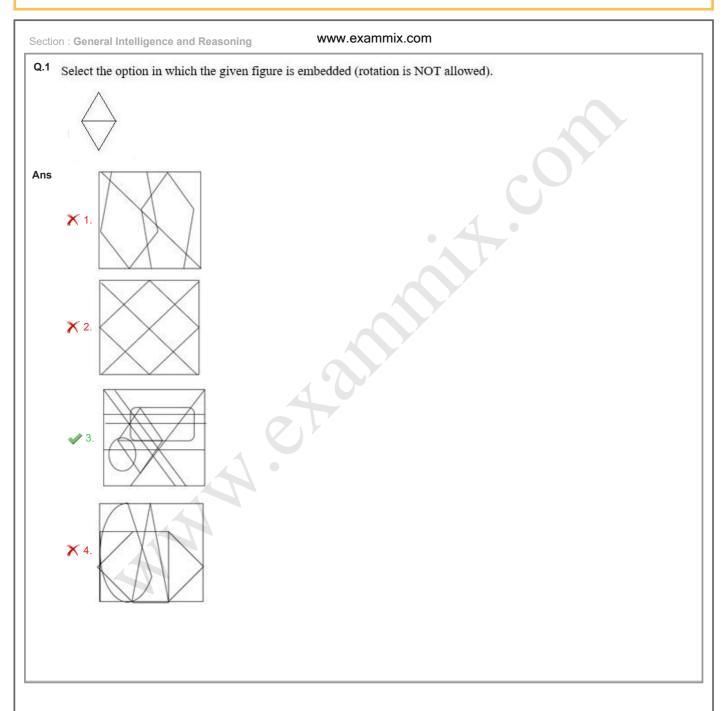
Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contracts Examination 2022

Roll Number	
Candidate Name	
Venue Name	
Exam Date	16/11/2022
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2022 Electrical



Q.2 Select the option that indicates the correct arrangement of the given parts of a car in a logical and meaningful order. 1. Windshield 2. Headlight 3. Boot 4. Steering 5. Seats **X** 1. 2, 1, 5, 4, 3 **X** 2. 1, 2, 4, 5, 3 **3**. 2, 1, 4, 5, 3 **X** 4. 1, 2, 5, 4, 3 Q.3 Select the correct option that indicates the arrangement of the following words in a logical and meaningful order. 1. Job post 2. Job offer 3. Vacancy 4. Selection 5. Interview **X** 1. 3, 1, 2, 5, 4 **X** 2. 3, 1, 4, 5, 2 **3**. 3, 1, 5, 4, 2 **X** 4. 3, 2, 4, 5, 1 Question ID: 26433067759 Status: Answered Chosen Option: 3 Q.4 Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series. G_H_HH__HG_H √ 1. HGGHH X 2. HGHGH X 3. HHGGH X 4. GGHGG Question ID: 26433057733 Status: Answered Chosen Option : 1 Q.5 Which letter cluster will replace the question mark (?) to complete the given series? WIDU, CVYI, ?, OVOK, UIJY Ans ✓ 1. IITW X 2. IHRE X 3. JIEW X 4. JSWE Question ID: 26433079433 Status: Answered Chosen Option: 1

Q.6 Select the set in which the numbers are related in the same way as are the numbers of the following set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed) (2, -11, 3)**1**. (6, 953, 7) Ans **X** 2. (1, −5, 2) **X** 3. (2, -31, 4) **X** 4. (8, 1120, 9) Question ID: 26433067935 Status: Answered Chosen Option: 1 'A + B' means 'A is the brother of B'. 'A - B' means 'A is the father of B'. 'A × B' means 'A is the sister of B'. 'A ÷ B' means 'A is the mother of B'. If $P \times M \div S \times R - T + Q$, then which of the following statements is NOT correct? 1. S is the mother of Q. X 2. P is R's mother's sister 3. P is T's father's mother's sister. X 4. R is the father of Q. Question ID: 26433056925 Status: Answered Chosen Option: 3 Q.8 In this question three statements are given followed by three conclusions I, II and III. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the

Statements:

All metals are solids.

Some solids are conductors.

No conductor is black.

Conclusions:

- (I) Some metals are conductors.
- (II) No solid is black.
- (III) All conductors are solids.

Ans

1. None of the conclusions follow.

given conclusion(s) logically follow(s) from the given statements.

- 2. Only conclusion III follows.
- X 3. Only conclusion II follows.
- X 4. All conclusions I, II and III follow.

Question ID: 26433057927

Status: Answered

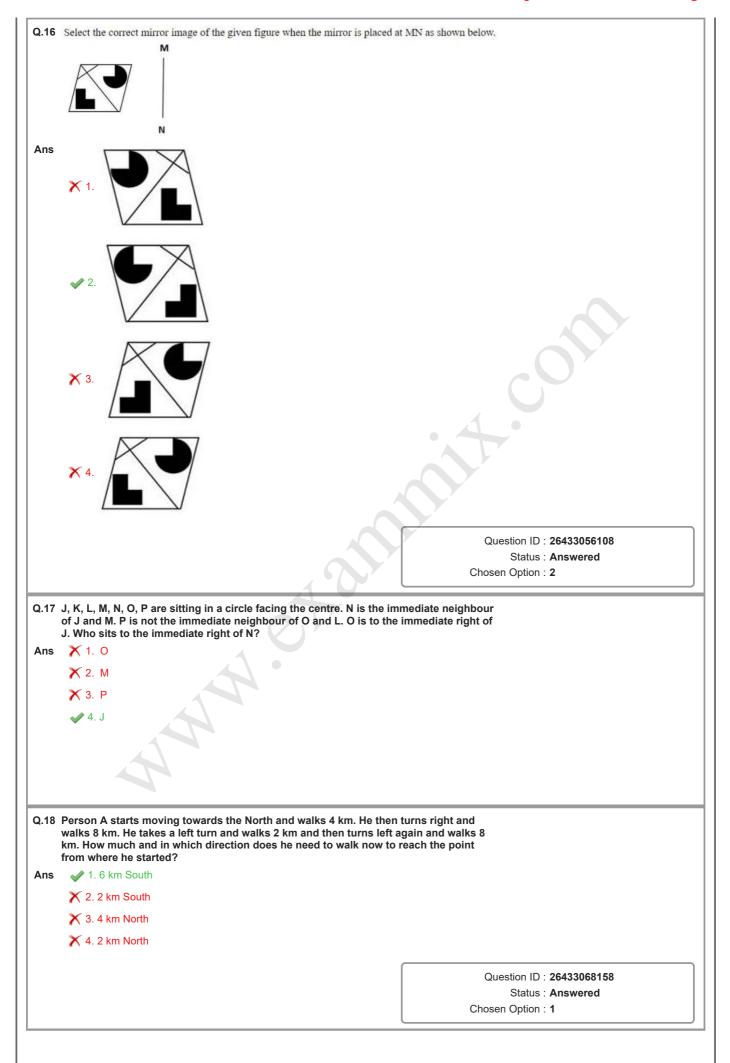
Chosen Option: 1

Q.9 Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.) Waiter: Restaurant:: Chef:? X 1. Food 2. Kitchen X 3. Office X 4. Hotel Question ID: 26433067361 Status: Answered Chosen Option: 2 Q.10 How many triangles are there in the given figure? Ans **X** 1. 20 **2**. 24 **X** 3. 18 **X** 4. 28 Question ID: 26433066054 Status: Answered Chosen Option: 2 Select the correct combination of mathematical signs that can sequentially replace and balance the given equation. 75 🔷 26 🔷 45 🔷 3 🔷 6 🔷 4 🔷 10 Ans X 1. +,-, ÷, ×, =, + Question ID: 26433067484 Status: Answered Chosen Option: 4

```
Q.12 Select the correct option that indicates the arrangement of the following words in a
     logical and meaningful order. (Top to Bottom)
     2.Feet
     3.Knee
     4.Thighs
     5.Toe Fingers
      X 1. 4, 3, 1, 5, 2
       2. 4, 3, 1, 2, 5
       X 3. 1, 3, 2, 4, 5
       X 4. 3, 4, 1, 5, 2
                                                                                          Question ID: 26433067754
                                                                                               Status: Answered
                                                                                       Chosen Option: 2
Q.13 Select the option that is related to the third term in the same way as the second term is
     related to the first term and the sixth term is related to the fifth term.
     10:-400::4:?::6:-72

√ 1. –16

       X 4. -24
                                                                                          Question ID: 26433092718
                                                                                               Status: Answered
                                                                                       Chosen Option: 1
Q.14 Select the correct combination of mathematical signs to sequentially replace the *
     signs and to balance the given equation.
     12*10*41*100*61
          3. ×,+,=,+
       X 4. +,=,×,+
                                                                                          Question ID: 26433057952
                                                                                               Status: Answered
                                                                                       Chosen Option: 3
Q.15 Select the option that represents the correct order of the given words as they would
     appear in an English dictionary.
     1.Grapevine
     2.Grudge
     3.Grapple
     4.Grunt
     5.Grapes
     6.Gruelling
     7.Grumpy
      X 1. 5, 1, 3, 2, 7, 6, 4
       2. 5, 1, 3, 2, 6, 7, 4
       X 3. 1, 5, 3, 2, 6, 7, 4
       X 4. 1, 3, 5, 2, 6, 7, 4
                                                                                          Question ID: 26433067554
                                                                                               Status: Answered
                                                                                       Chosen Option: 2
```



Q.19 Which of the following interchanges of signs would make the given equation correct? $195 \times 39 \div 3 + 58 - 23 = 50$

2. × and ÷

X 3. ÷ and +

X 4. + and ×

Q.20 Town D is to the north of Town A. Town B is to the west of Town A. Town M is to the south of Town B. Town C is to the west of Town D. Town B is to the south of town C.Town M is to the south-west of Town A. What is the position of Town B with respect to Town D?

X 1. North-west

X 2. North

X 3. West

4. South-west

Question ID: 26433076692 Status: Answered

Chosen Option: 4

Q.21 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

_MEAA_TMM__AN_M_EA_NT

Ans X 1. MEAMTMA X 2. MMAETAM

✓ 3. M N E A T M A

X 4. M E A T M M A

Question ID: 26433067745 Status: Answered

Chosen Option: 3

Q.22 If ÷ means +, + means -, - means ×, and × means ÷, then which of the following equations is correct?

 \checkmark 1. 15 - 3 + 10 × 5 ÷ 5 = 48

 \times 2. 15 - 3 + 10 × 5 ÷ 5 = 55

 \times 3. 15 - 3 + 10 \times 5 ÷ 5 = 46

 \times 4. 15 - 3 + 10 × 5 ÷ 5 = 50

Question ID: 26433082775

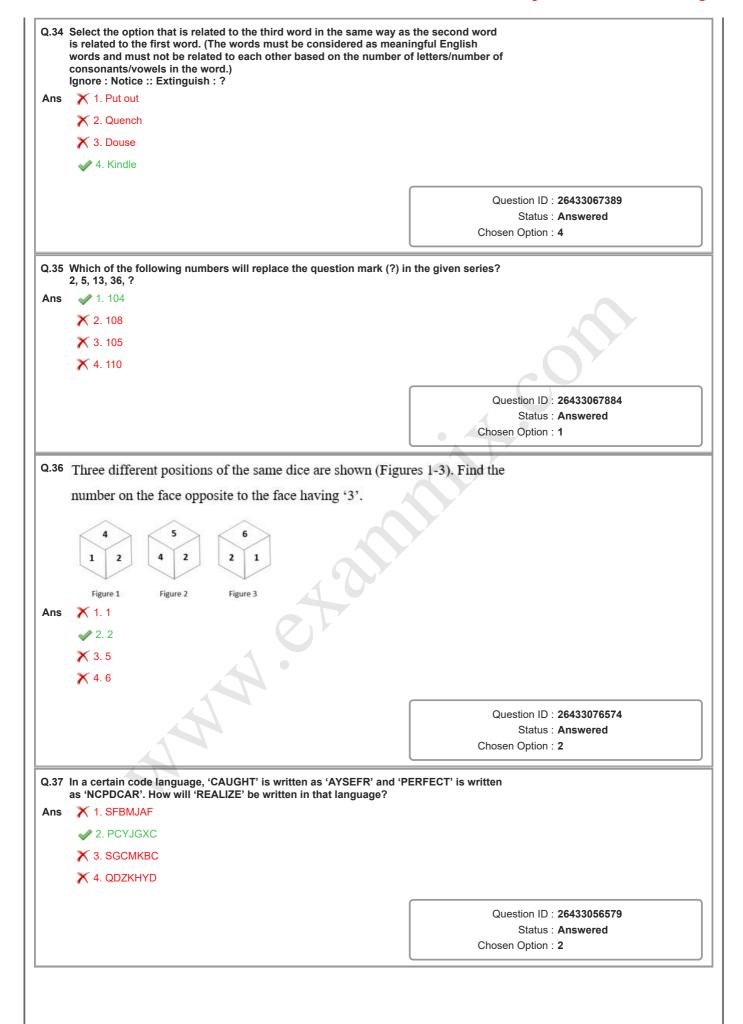
Status: Answered

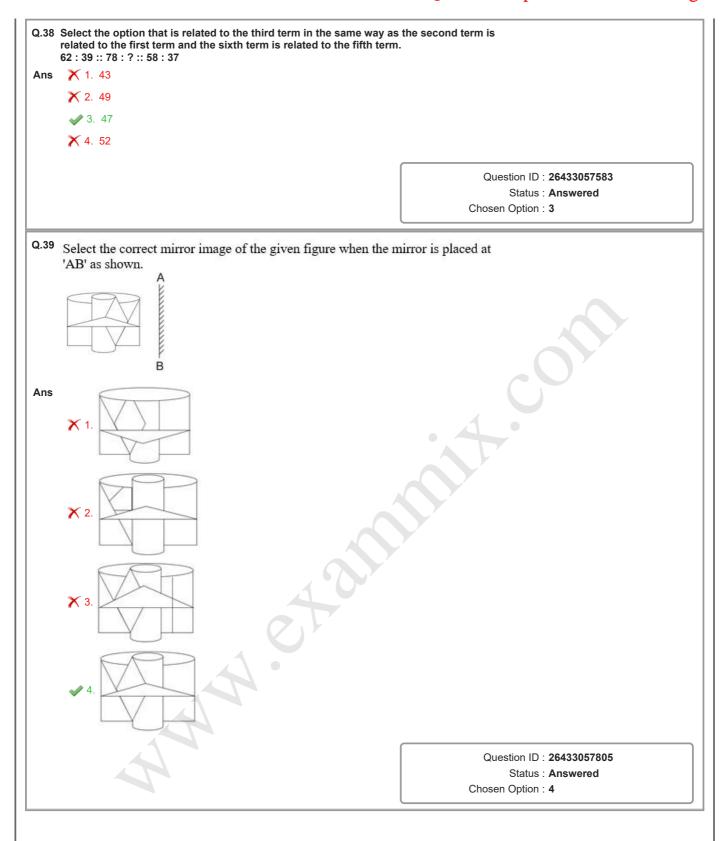
Chosen Option: 1

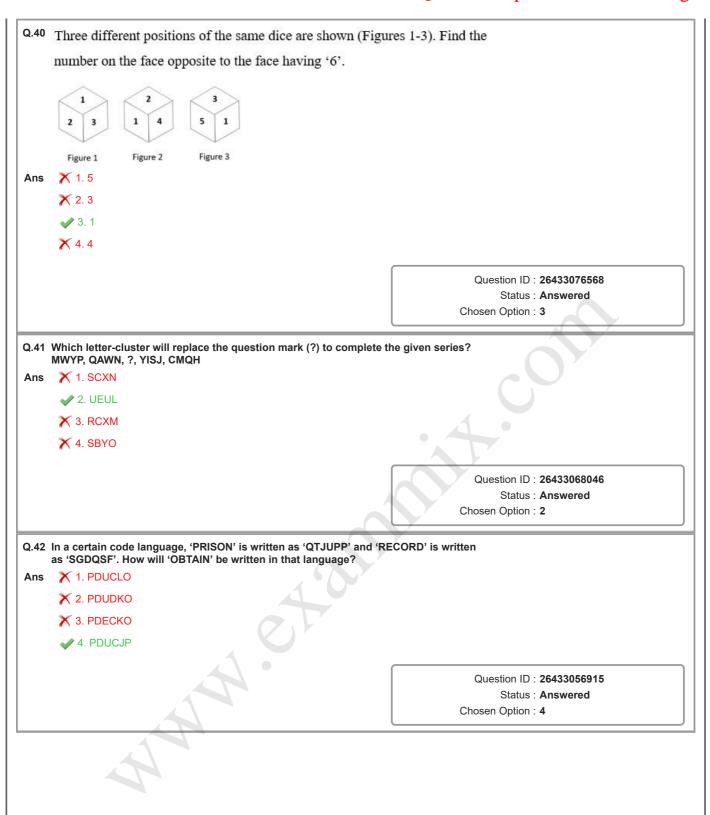
Q.23 Select the number from among the given options that can replace the question mark (?) in the following series. 211, 158, 187, ?, 163, 110, 139 X 1. 132 **2**. 134 **X** 3. 138 X 4. 140 Question ID: 26433057033 Status: Answered Chosen Option: 2 Q.24 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series. HF__HFD_HF_VHFDV__DV Ans X 1. DDVVHF X 2. DVDDHF X 3. DVHHDF 4. DVVDHF Question ID: 26433056240 Status: Answered Chosen Option: 4 Q.25 Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: All diamonds are gems. All gems are ornaments. Conclusions: I. Some ornaments are diamonds. II. All ornaments are gems. Ans 1. Only conclusion I follows X 2. Neither conclusion I nor II follows X 3. Only conclusion II follows 4. Both conclusions I and II follow Question ID: 26433056692 Status: Answered Chosen Option: 1 Q.26 Select the set in which the numbers are related in the same way as are the numbers of the given sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 - Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (14, 29, 59) (6, 13, 27) **X** 1. (13, 26, 52) **X** 2. (5, 15, 33) 3. (11, 23, 47) **X** 4. (9, 20, 42) Question ID: 26433057085 Status: Answered Chosen Option: 3

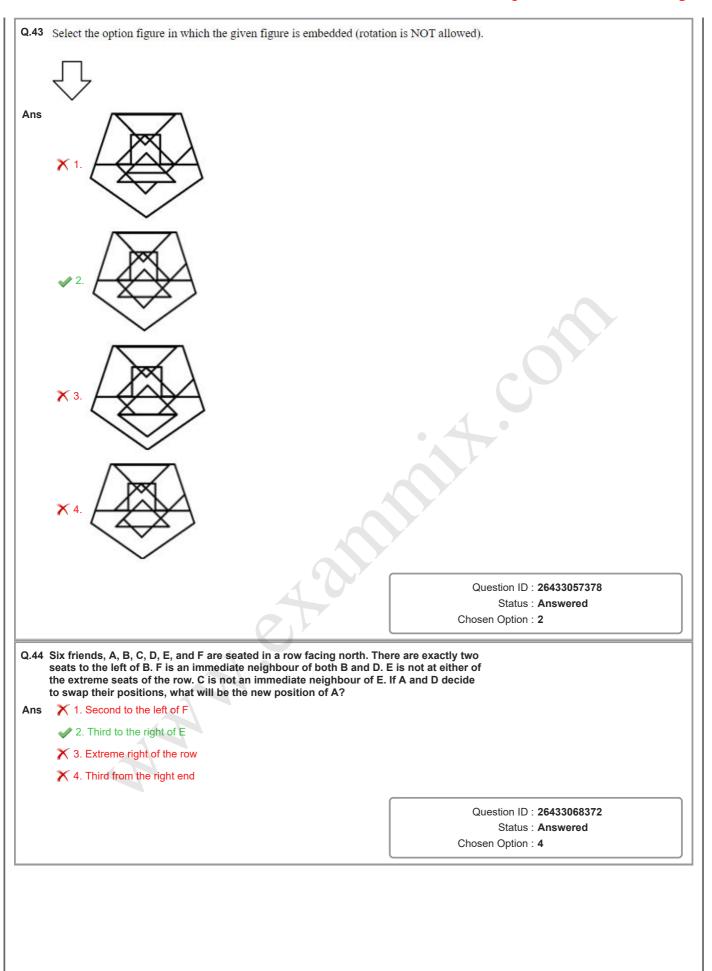
	1.27 L, M, N, O, P, Q and R are seven friends of different heights. O is taller than five of his friends. P is taller than only L. M is taller than three of his friends and shorter than three of his friends. R is not the tallest. Q is immediately shorter than M. Who amongst the seven friends is the tallest?	
Ans	★ 1. M	
	X 2. O	
	X 3. L	
	✓ 4. N	
		Question ID : 26433068756
		Status : Answered Chosen Option : 4
		Chosen Option : 4
Q.28	Select the option that is embedded in the given figure (rotation	is NOT allowed).
	(A)	
Ans		
	✓ 1.	
	X 2.	
	N 2	
	X 3. (()	
	× 4.	
	Θ	
		Question ID : 26433058098
		Status : Answered
		Chosen Option : 1
	Select the word-pair in which the two words are related in the same words in the given pair. (The words must be considered as meaningful English words and m to each other based on the number of letters/number of consonants word) Immerse: Emerge	nust not be related
Ans	1. Mitigate : Relieve	
	× 2. Instill : Inject	
	X 3. Jovial : Cheerful	
	✓ 4. Obvious : Obscure	
		Question ID : 26433068484
		Status : Answered
		Chosen Option : 2

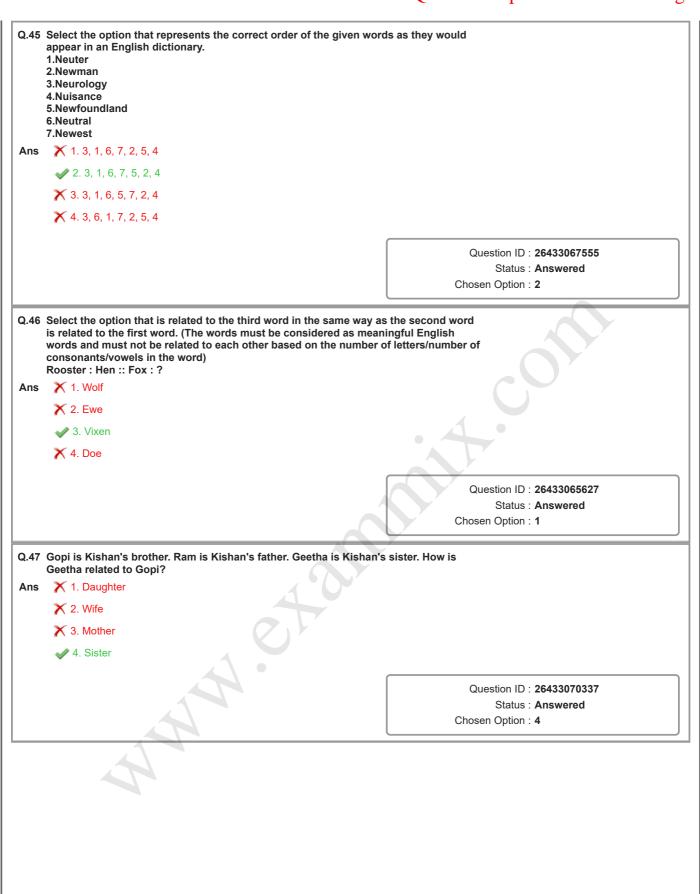
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Q.30 Select the option that is related to the third term in the same way as the second term is
     related to the first term and the sixth term is related to the fifth term.
     15:60::9:?::10:35
      X 1. 39
Ans
       X 2.45
       4. 30
                                                                                      Question ID: 26433057578
                                                                                           Status: Answered
                                                                                   Chosen Option: 2
Q.31 Select the correct mirror image of the given figure when the mirror is placed at MN as shown.
      ytr27da
      ytr27dg 1X
       X 2 E D L Z J J A
       ytr27da E>
       X4. sp/Zrl/
                                                                                      Question ID: 26433055957
                                                                                           Status: Answered
                                                                                   Chosen Option: 3
Q.32 In a code language, 'TURNIP' is coded as WXUQLS and 'ORANGE' is coded as RUDQJH. How will 'GRAPES' be coded in the same language?
       X 1. JUESHV
Ans
        2. JUDSHV
       X 3. JVDSHW
       X 4. KVDSHU
                                                                                      Question ID: 26433057893
                                                                                           Status: Answered
                                                                                   Chosen Option: 2
Q.33 In a certain code language, 'OTHERS' is written as 'RQDGSN' and 'SCHOOL' is written
     as 'KNNGBR'.How will 'SPORTS' be written in that language?
      X 1. RSQ00Q
       ✓ 2. RSQNOR
       X 3. RTQNOR
       X 4. RSQNPR
                                                                                      Question ID: 26433056665
                                                                                           Status: Answered
                                                                                   Chosen Option: 2
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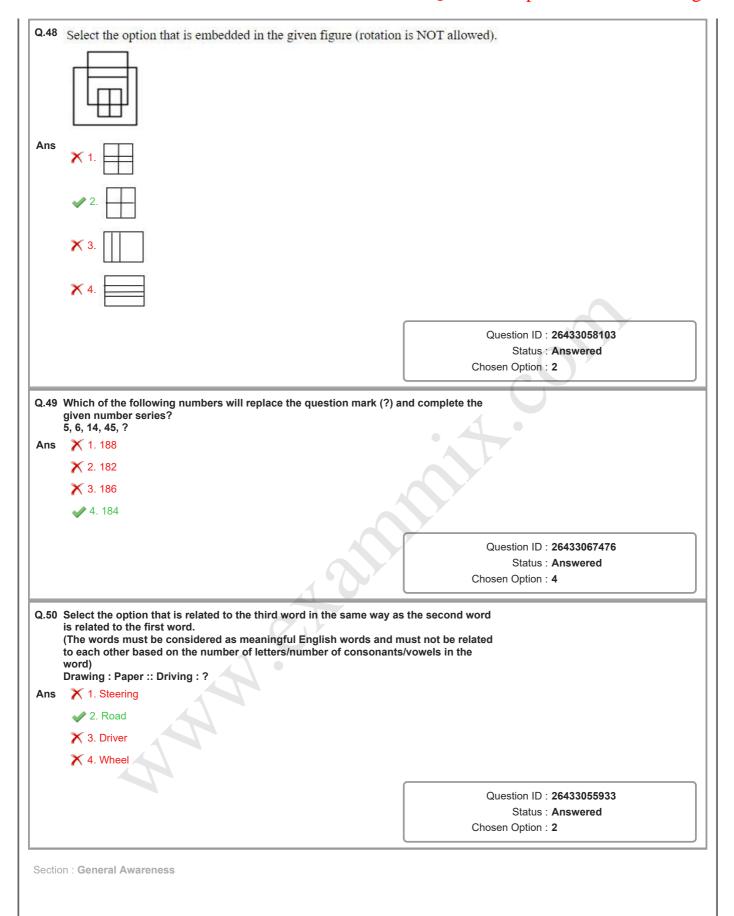








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Ans	X 1. humid subtropical climate		
	2. marine west coast climate		
	X 4. tropical monsoon climate		
		Question ID : 26433059144	
		Status : Answered	
		Chosen Option : 4	
0.2	Which national park, located in a north-eastern state, is	famous for being the only park	
٠.=	in India to have four big cat species namely panther, tigo		
Ans	leopard? 1. Dachigam National Park		
	★ 2. Nanda Devi National Park		
	X 3. Periyar National Park		
	✓ 4. Namdapha National Park		
	4. Namuapha National Park		
		Question ID : 26433055131	
		Status : Answered	
		Chosen Option : 4	
Q.3	Probiotics can be defined as:	4 •	
Ans	✓ 1. live microorganisms that are intended to have health applied to the body	h benefits when consumed or	
	X 2. endotoxin producing bacteria, which can lead to diar	rrhoea	
	✗ 3. protozoan parasites of humans		
	✗ 3. protozoan parasites of humans✗ 4. live microorganisms that pose a health threat when of		
		consumed or applied to the body Question ID: 26433054037	
		Question ID : 26433054037 Status : Answered	
		consumed or applied to the body Question ID: 26433054037	
Q.4	★ 4. live microorganisms that pose a health threat when of the United Nations declare the World Physics	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the physics 1, 2005	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein?	
	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045	
Ans	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans Q.5	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans Q.5	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa 2. Shringaara rasa	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans Q.5	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa 2. Shringaara rasa 3. Roudra rasa	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans Q.5	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa 2. Shringaara rasa	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans Q.5	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa 2. Shringaara rasa 3. Roudra rasa	Question ID : 26433054037 Status : Answered Chosen Option : 1 Year, also known as the sicist Albert Einstein? Question ID : 264330100045 Status : Not Answered	
Ans	When did the United Nations declare the World Physics Einstein Year, to mark the 100th anniversary of the phys 1. 2005 2. 2002 3. 2004 4. 2006 Love can best be expressed in which form of rasa? 1. Veera rasa 2. Shringaara rasa 3. Roudra rasa	Question ID: 26433054037 Status: Answered Chosen Option: 1 Year, also known as the sicist Albert Einstein? Question ID: 264330100045 Status: Not Answered Chosen Option:	

ns	Who among the following opened his dance school by the name 1. Shambhu Maharaj	Trainsmain f	
	🗙 2. Mohanrao Kallianpurkar		
	✓ 3. Birju Maharaj		
	X 4. Sundar Prasad		
		Question ID : 26433072886	
		Status : Answered Chosen Option : 2	
		·	
Q.7	Which article of the Constitution of India guarantees equality of citizens in matters relating to employment and appointment to a state?		
Ans	X 1. Article 18		
	X 2. Article 17		
	✗ 3. Article 19		
	✓ 4. Article 16		
		Question ID : 26433089266 Status : Answered	
		Chosen Option: 4	
Q.8 Ans	Operation Flood is associated with: 1. pulses		
A113	× 2. potatoes		
	X 3. fish		
	✓ 4. milk		
	4. IIIIK		
		Question ID : 26433054810	
		Status : Answered	
		Chosen Option : 4	
Q.9	Which is the third layer of soil from the top?		
Ans	X 1. Top soil		
	✓ 2. Substratum		
	X 3. Sub soil		
	X 4. Unweathered parent rock		
		Question ID : 26433086759 Status : Answered	
		Status . Alisweleu	

Q.10 Consider the following statements about the retreating monsoon of India. 1) The months of October and November are known for retreating monsoons. 2) The South-west monsoons becomes South-east monsoons. 3) A bulk of the rainfall of the Coromondal coast is derived from these depressions and cyclones. 4) In northern India, it is comparatively dry and temperatures begin to fall. 5) Three-fourths of the total rain in the country is received during the retreating monsoon season. Which of the above are true? X 1. All except 5 X 2. Only statements 1, 2 and 3 X 3. Only statements 2, 3 and 4 4. Only statements 1, 3 and 4 Question ID: 26433055313 Status: Not Answered Chosen Option: --Q.11 Which protein is naturally found in some grains including wheat, barley and rye? 1. Gluten X 2. Maltase X 3. Renin X 4. Pepsin Question ID: 26433054051 Status: Answered Chosen Option: 1 Q.12 Deficiency of which vitamin can cause skin disorders, hyperaemia (excess blood) and swelling of the mouth and throat, angular stomatitis (sores on the corners of the mouth) and hair loss? 1. Vitamin A X 2. Vitamin C X 3. Vitamin D 4. Vitamin B2 Question ID: 26433055113 Status: Answered Chosen Option: 4 Q.13 At present, how many fundamental duties are mentioned in the Indian Constitution? Ans X 1. 10 Question ID: 26433064818 Status: Answered

Chosen Option: 4

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Q.14 In December 2021, what is the amount of overdraft for which the provision was made under the Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM) for verified SHG members having accounts under the Prime Minister Jan Dhan Yojana with Banks? Ans X 1. ₹2,000 √ 2. ₹5,000 X 3. ₹15,000 ¥ 4. ₹10,000 Question ID: 26433082835 Status: Not Answered Chosen Option: --Q.15 Which of the following phylums represent triploblastic animals? ✓ 1. Platyhelminthes, Echinodermata and Chordata X 2. Annelida, Platyhelminthes and Porifera X 3. Protozoa, Nematoda and Porifera 4. Protozoa, Platyhelminthes and Porifera Question ID: 26433054029 Status: Answered Chosen Option: 1 Q.16 Which port is known as 'Gateway of Eastern India'? Ans X 1. Paradip Port X 2. Port Blair Port X 3. Visakhapatnam Port 4. Kolkata Port Question ID: 264330100073 Status: Answered Chosen Option: 4 Q.17 In March 2022, who was sworn in as the Chief Minister of Punjab? 1. Bhagwant Mann X 2. Parkash Singh Badal X 3. Navjot Singh Sidhu X 4. Amarinder Singh Question ID: 26433081820 Status: Answered Chosen Option: 1 Q.18 In which of the following decades was there a negative growth rate of population in India? Ans X 1. 1931-1941 X 2. 1951-1961 X 3. 1971-1981 4. 1911-1921 Question ID: 26433089249 Status: Answered Chosen Option: 3

Which of the following is an example of an oscillatory motion?	
X 4. Moving of a bus in a circular path	
	Question ID : 264330100743
	Status : Answered
	Chosen Option: 2
Which of the following organizations published the WORLD ECON.	OMIC OUTLOOK?
report?	OWIG OUTLOOK
★ 1. World Bank	
X 2. Asian Development Bank	
✓ 3. International Monetary Fund	
X 4. Reserve Bank of India	
	Question ID : 264330100712
	Status : Answered
	Chosen Option : 1
Which of the following is an example of a vector quantity?	1
★ 1. Volume	
× 2. Mass	
X 3. Temperature	
. releasily	
	Question ID : 26433064405
	Status : Answered
	Chosen Option : 4
Which of the following laws works in constant pressure?	
★ 1. Graham's law	
× 2. Thomson's law	
X 3. Boyle's law	
	Question ID : 26433064134
	Status : Answered
	Chosen Option : 3
M/ho was the author of Buddhasharita?	
4. Ashvaghosha	
	Question ID : 26433065575
	Status : Answered
	 ★ 1. Moving of an object in a straight line ★ 2. To and fro motion of a simple pendulum ★ 3. Dropping of an object from a height ★ 4. Moving of a bus in a circular path Which of the following organisations publishes the 'WORLD ECON report? ★ 1. World Bank ★ 2. Asian Development Bank ★ 3. International Monetary Fund ★ 4. Reserve Bank of India Which of the following is an example of a vector quantity? ★ 1. Volume ★ 2. Mass ★ 3. Temperature ★ 4. Velocity Which of the following laws works in constant pressure? ★ 1. Graham's law

Ans	✓ 1. To reduce the time and distance between the mega cities	erai Super riigiiways:
ZII9	7. To reduce the time and distance between the mega cities2. To link rural areas and villages to the cities	
	 3. To link a state capital with the different district headquarters 	
	X 4. To connect the district headquarters with other places of the d	lictrict
	4. To connect the district headquarters with other places of the o	iisuict
		Question ID : 264330100084
		Status : Answered
		Chosen Option : 1
Q.25	Which is the only streptococcal species widely used in food fern	nentation, especially
	for yogurt manufacturing?	
Ans	X 1. Streptococcus pyogenes	
	X 2. Streptococcus agalactiae	
	3. Streptococcus thermophilus	
	X 4. Streptococcus viridans	
		Question ID : 26433055810
		Status : Answered
		Chosen Option: 3
Q.26	In which of the following Nobel Peace Prize Concerts did Ustad Aperform the 'Rage for Peace' along with his sons Ayaan Ali Khar	
	Khan?	
Ans	√ 1. 2014	
	X 2. 2012	
	X 3. 2016	
	★ 4. 2018	
		Question ID : 26433054463
		Status : Not Answered
		Chosen Option :
Q 27	According to the sport, identify which of the following sportsper	sons is different from
٠	the rest.	
Ans	X 1. Kapil Dev	
	✓ 2. Leander Paes	
	★ 3. Anil Kumble	
	★ 4. Rahul Dravid	
		Out-afficia ID - 004220400700
		Question ID : 264330100726 Status : Answered
		Chosen Option : 2
	The Halda festival is celebrated in which of the following states of	of India?
Ans	X 1. Maharashtra	
	2. Himachal Pradesh	
	X 3. Meghalaya	
	X 4. Karnataka	
		Question ID : 26433064333
		Status : Answered
		Chosen Option : 2

s	Name the mirror which is used in the side mirrors of cars. 1. Plane	
	★ 2. Parabolic	
	X 4. Concave	
		Question ID : 26433064408
		Status : Answered Chosen Option : 3
		Chosen Option . 3
Q.30	was the Governor General of India when the Per	manent Settlement was
۸nc	introduced. X 1. Lord Linlithgow	
Ans		
	✓ 2. Lord Cornwallis	
	X 3. Lord Irwin	
	X 4. Lord William Bentinck	
		Question ID : 26433089139
		Status : Answered
		Chosen Option: 2
_		
2.31	Hideki Yukawa, who received the Nobel Prize in 1949, is we discovery?	II known for which
Ans		
	X 2. Measurement of electronic charge	
	★ 4. Cascade process of cosmic radiation	
	The Case and Process of Cooling Taglians in	
		Question ID : 264330100015
		Status : Not Answered
		Chosen Option :
32	If one flies from north to south over India, which would be t	he correct order of the
	rivers?	
	1) Kaveri 2) Mahanadi	
	3) Krishna 4) Ganga	
	5) Godavari	
Ans	✓ 1. 4-2-5-3-1	
	★ 2. 1-2-3-4-5	
	★ 3. 1-3-5-2-4	
	★ 3. 1-3-5-2-4 ★ 4. 5-2-1-3-4	
		Question ID : 26433092852
		Status : Not Answered
		Chosen Option :

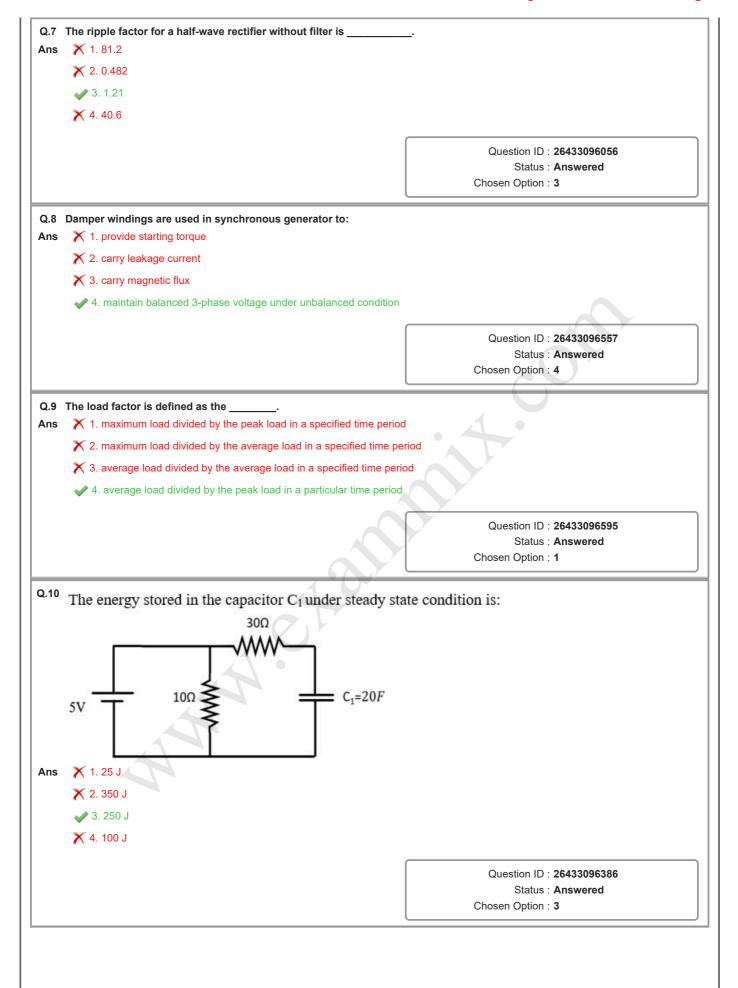
Q.33	Which team became the first Indian sports team to unveil an official metaverse in February 2022?	team logo in the
Ans	★ 1. Mumbai Indians	
	× 2. Chennai Super Kings	
	✓ 3. Gujarat Titans	
	X 4. Delhi Capitals	
		Question ID : 26433081837
		Status : Answered Chosen Option : 2
		Chosen Option . 2
Q.34	Which of the following is NOT a herbivore?	
Ans	✓ 1. Hawk	
	× 2. Rabbit	
	X 3. Grasshopper	
	X 4. Sheep	
		Question ID : 264330100710
		Status : Answered Chosen Option : 1
		Chosen Option . 1
Q.35	Which of the following through its Micro Credit Innovations Departm	nent has continued
	its role as the facilitator of microfinance initiatives in the country?	
Ans	X 1. IFCI	
	✓ 2. NABARD	
	X 3. SIDBI	
	X 4. IDBI	
		Out a fine ID + 00 4000 4000
		Question ID : 26433064856 Status : Answered
		Chosen Option : 2
Q.36	In which year was the last Fundamental Duty inserted in the list of d Constitution?	uties in the
Ans	★ 1. 2001	
	★ 2. 2003	
	✓ 3. 2002	
	X 4. 2004	
	1.2007	
		Question ID : 26433071652
		Status : Answered
		Chosen Option : 2
37	Who among the following leaders called Bal Gangadhar Tilak as 'the	a maker of modern
	India'?	maker of modern
Ans	✓ 1. Mahatma Gandhi	
	🗙 2. Lala Lajpat Rai	
	X 3. Jawaharlal Nehru	
	7 S. Jawananai Neniu	
	★ 4. Subhash Chandra Bose	
		Question ID : 26433081955
		Question ID : 26433081955 Status : Answered Chosen Option : 2

icies. 1. Tirot Sing 2. Kalicharan Brahma 3. Songram Sangma 4. Haipou Jadonang ich of the following is NOT a function of money?	Question ID : 26433085272 Status : Not Answered Chosen Option :
2. Kalicharan Brahma 3. Songram Sangma 4. Haipou Jadonang ich of the following is NOT a function of money?	Status : Not Answered
3. Songram Sangma 4. Haipou Jadonang ich of the following is NOT a function of money?	Status : Not Answered
4. Haipou Jadonang ich of the following is NOT a function of money?	Status : Not Answered
ich of the following is NOT a function of money?	Status : Not Answered
	Status : Not Answered
	Chosen Option :
1. Medium of exchange	
2. Store of value	
3. Unit of account	
4. Price stability	
	Ov., tiv. ID, 2010005101
	Question ID : 26433065424 Status : Answered
	Chosen Option : 4
tab and amount to take to the first of the f	
ich cell organelle is tubular in form and lacks ribosomes and ar production and metabolism of fats and steroid hormones?	associated with
1. Vacuoles	
2. Smooth endoplasmic reticulum	
3. Lysosome	
4. Cytosol	
	Ougation ID + 26422055422
	Question ID : 26433055122 Status : Answered
	Chosen Option : 2
Jitendra Singh (Union Minister of State (Independent Charge) So	
otember 2021, to identify 75 innovations in Telemedicine, Al, Dig	d in ital Health and BIG
(4. JANTECH	
	Question ID : 26433081801
	Status : Answered
	Chosen Option : 1
of 10 April 2022, who among the following has been the longest	serving Prime
nister of India?	•
3. Indira Gandhi	
A Jowaharlal Nohru	
🖊 4. Jawaharlal Nehru	
🗸 भ. Jawananai Neniu	
পু প. Jawananai Neniu	
id I	ch cell organelle is tubular in form and lacks ribosomes and are production and metabolism of fats and steroid hormones? 1. Vacuoles 2. Smooth endoplasmic reticulum 3. Lysosome 4. Cytosol Litendra Singh (Union Minister of State (Independent Charge) Schnology) launched the Amrit Grand Challenge Programme titlectember 2021, to identify 75 innovations in Telemedicine, Al, Dig a by Start-ups and Entrepreneurs. 1. DHANTECH 2. DHANCARE 3. JANCARE 4. JANTECH 1. Narendra Modi 2. Manmohan Singh

Q.43	The disqualification of the membership of a State Legislature is la Article of the Indian Constitution?	id down in which
Ans	X 1. Article 190	
	× 2. Article 14	
	★ 3. Article 144	
	✓ 4. Article 191	
	•	
		Question ID : 26433089975
		Status : Answered
		Chosen Option : 4
	Based on evidence from seismic waves, heat flows and meteorites Earth is made up of rock that represents 84% of the Earth's total v	
Ans	★ 1. Outer core	
	X 2. Inner core	
	X 4. Oceanic crust	
		Question ID : 26433055825
		Status : Answered
		Chosen Option : 1
Q.45	What is the mass number of nitrogen?	
Ans	X 1. 10	
	X 2.7	
	✓ 3. 14	
	X 4. 12	
		Question ID : 264330100705 Status : Answered
		Chosen Option : 3
Q.46	In March 2022, who broke the legendary Kapil Dev's, 40-year-old re	ecord of 'the fastest
,	Test Fifty' by an Indian?	
Ans	X 1. MS Dhoni	
	× 2. R Ashwin	
	✓ 3. Rishabh Pant	
	★ 4. Shreyas Iyer	
		Question ID : 26433055053 Status : Answered
		Chosen Option: 2
	Which of the following Ministries launched Y-Break App for workin September 2021?	ng professionals in
Ans	X 1. Ministry of Defence	
	★ 2. Ministry of Health and Family welfare	
	3. Ministry of Tourism	
	✓ 4. Ministry of AYUSH	
		Question ID : 26433082810
		Status : Answered Chosen Option : 2

Q.48 In India, what type of unemployment is created due to lack of employable skills among the educated youths in India? X 1. Cyclical unemployment 2. Technological unemployment X 3. Structural unemployment 4. Educated unemployment Question ID: 264330100024 Status: Answered Chosen Option: 4 Q.49 The 3rd edition of the SAFF U-18 Women's Football Championship was held in _ in March 2022. 1. Jharkhand X 2. Bihar X 3. Madhya Pradesh X 4. Maharashtra Question ID: 26433089935 Status: Answered Chosen Option: 1 Q.50 Which of the following is a major component of bio-gas? X 1. Propane X 2. Hexane 3. Methane X 4. Butane Question ID: 264330100701 Status: Answered Chosen Option: 3 Section: Part B General Engineering Electrical Q.1 For n-JFET, the channel is a/an channel and gates are X 1. P type; N type X 2. N type; N type 3. N type; P type X 4. P type; P type Question ID: 26433096069 Status: Answered Chosen Option: 1 Q.2 A short transmission line has impedance value of 20 Ω . The values of A, B, C and D parameters of the short transmission line are ____ Ans X 1, 1, 1, 1, 1 √ 2. 1, 20, 0, 1 \times 3. 1, $\frac{1}{20}$, 0, 1 × 4. 20, 1, 0, 20 Question ID: 26433099228 Status: Answered Chosen Option: 4

	√ 2. thumb		
	★ 3. both fore finger and middle finger		
	★ 4. middle finger		
		Question ID : 26433096854	
		Status : Answered	
		Chosen Option : 2	
1	Determine the effective inductance of the series connected	coupled coils as shown	
	in the given figure.		
	1 H		
	2 H 6 H		
_			
S	X 1. 13 H		
	X 2. 10 H		
	✓ 3. 6 H		
	X 4. 12 H		
		Ougstion ID : 26/23096964	
		Question ID : 26433096864 Status : Not Answered	
.5	If 5A current flows through a circuit for 5 minutes, then calcul	Status : Not Answered Chosen Option :	
	If 5A current flows through a circuit for 5 minutes, then calcul 1.1500 C	Status : Not Answered Chosen Option :	
		Status : Not Answered Chosen Option :	
	✓ 1. 1500 C	Status : Not Answered Chosen Option :	
	✓ 1. 1500 C ★ 2. 100 C	Status : Not Answered Chosen Option :	
	✓ 1. 1500 C ★ 2. 100 C ★ 3. 25 C	Status : Not Answered Chosen Option :	
	✓ 1. 1500 C ★ 2. 100 C ★ 3. 25 C	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430	
	✓ 1. 1500 C ★ 2. 100 C ★ 3. 25 C	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered	
	✓ 1. 1500 C ★ 2. 100 C ★ 3. 25 C	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a lumonate in the second sec	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	1. 1500 C 2. 100 C 3. 25 C 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a luminate required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a lumi is required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19 ✓ 2. 38 	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a luminate required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19 ✓ 2. 38 ✓ 3. 25 	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a lumi is required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19 ✓ 2. 38 	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a luminate required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19 ✓ 2. 38 ✓ 3. 25 	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1	
.6	 ✓ 1. 1500 C ✓ 2. 100 C ✓ 3. 25 C ✓ 4. 300 C A 20 m long and 10 m wide room is to be illuminated to a leve number of lamps needed to illuminate the whole area if a luminate required (Given Utilisation factor = 0.7 and Maintenance factor = 1. 19 ✓ 2. 38 ✓ 3. 25 	Status: Not Answered Chosen Option: ate the total charge. Question ID: 26433096430 Status: Answered Chosen Option: 1 I of 300 lux. Find the en output of 5000 lumens eter = 0.9).	



Q.11 What are the signs of wattmeter W_1 and W_2 , respectively, if the power factor of the

Ans

X 1. Negative and positive

X 2. Positive and negative

X 3. Positive and positive

4. Positive and 0

Question ID: 26433096900 Status: Answered

Chosen Option: 2

Q.12 The magnetisation branch of an equivalent circuit of a transformer is drawn in with supply voltage.

X 1. both series and parallel

X 2. Neither series nor parallel

X 3. series only

4. parallel only

Question ID: 26433096696 Status: Answered

Chosen Option: 2

If If is the full load current/phase and %Xs is the percentage synchronous reactance, maximum power output of an alternator is:

Ans

$$imes$$
 1. $P_{max} = rac{\%X_S imes 100}{EI_f}$

$$\bigstar$$
 2. $P_{max} = \frac{\%X_SI_f \times 100}{E}$

$$\times$$
 3. $P_{max} = \frac{I_f \times 100}{EX_S}$

$$\ref{eq:Pmax} = \frac{EI_f \times 100}{\%X_S}$$

Question ID: 26433096659

Status: Answered

Chosen Option: 2

Q.14 In a series RLC circuit, R=4 Ω , L=4 mH and C= 20 μ F.What is the value of Q-factor?

X 1. 0.0176

X 2. 7.07

3. 3.535

X 4. 0.0707

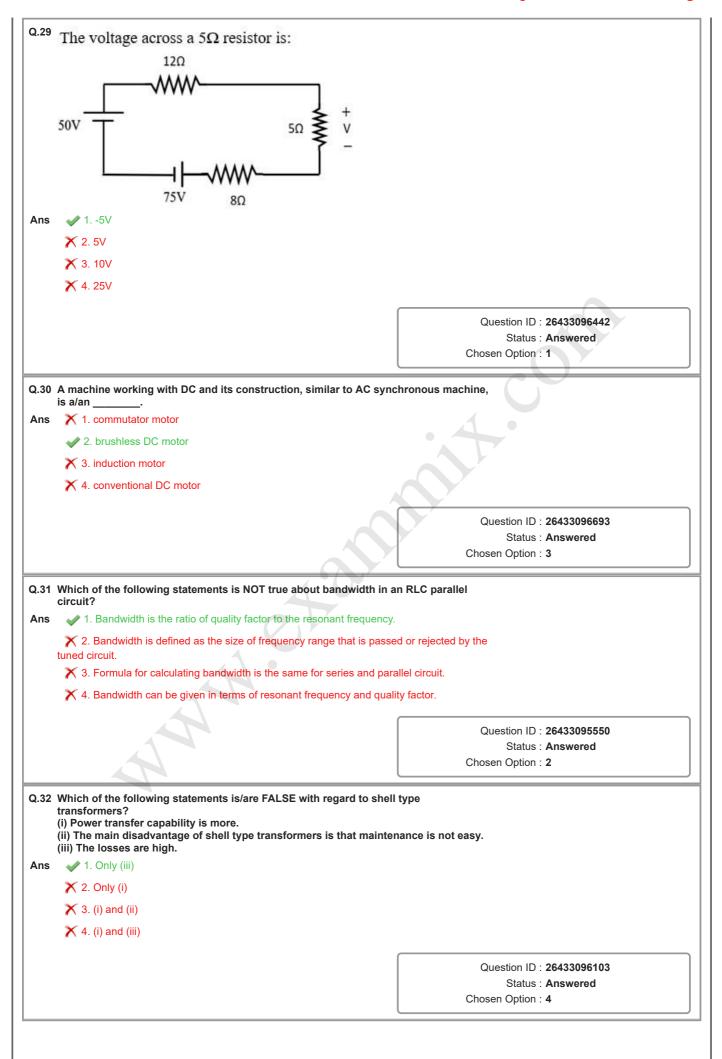
Question ID: 26433095570 Status: Answered

Chosen Option: 4

	Earthing is required to protect apparatus, equipment,	machines etc. from
Ans	★ 1. excess current	
	★ 2. excess voltage	
	★ 3. leakage impedance	
	✓ 4. leakage current	
		Question ID : 26433099279 Status : Answered
		Chosen Option: 4
Q.16	What frequency does the sinusoidal signal have that and three vertical divisions on a CRO for a full cycle idivision?	
Ans	X 1. 1KHz	
	X 2. 100Hz	
	X 3. 250Hz	
	✓ 4. 200Hz	
	•	
		Question ID: 26433096498
		Status : Answered
		Chosen Option : 4
Q.17	The efficiency of a large transformer under full load of	condition is found by conducting
	which of the following tests?	
Ans	X 1. OC test	
	★ 2. Core balance test	
	X 4. SC test	
		Question ID : 26433096091 Status : Answered
		Chosen Option: 3
Q.18	The tripping of circuit due to earthing in case of fault energy due to	s saves wastage of electrical
Ans	1. supply of excess current	
	★ 2. supply of excess voltage	
	X 4. supply frequency	
	4. Supply frequency	
		Question ID : 26433099280
		Status : Answered
		Chosen Option : 3
O 10	For applications such as induction furnace control, _	motor is used.
Ans	1. shaded pole single phase motor	IIIOIOI 13 U3EU.
	2. single value capacitor run motor	
	X 3. two value capacitor run motor	
	X 4. repulsion motor	
		Question ID : 26433099626
		Status : Answered

Q.20	How many pressure coils and current coils, respectively, are pre dynamometer wattmeter?	sent in a three-phase	
Ans	✓ 1. There are two pressure coils and two current coils		
	★ 2. There is no pressure coil and no current coil		
	✗ 3. There is one pressure coil and one current coil		
	★ 4. There are three pressure coils and three current coils		
		Question ID : 26433098184	
		Status : Answered	
		Chosen Option : 2	
Q.21	All tenders received for the same contract are opened by the corperson at the advertised time and place in the presence of		
Ans	★ 1. both agents and contractors		
	★ 2. agents of intending contractors only		
	✓ 3. either agents or contractors		
	X 4. intending contractors only		
	* (
		Question ID : 26433099543	
		Status : Answered	
		Chosen Option : 1	
O 22	Before taking work in hand, even the contractor following good i	management practices	
Q.	may be unaware of	management practices	
Ans	X 1. analysis of costs		
	X 2. availability of products		
	X 4. specifications		
		Question ID : 26433099549	
		Status : Answered	
		Chosen Option : 2	
Q.23	Feeders are mainly designed from the point of view of		
Ans	★ 1. number of tapings from it		
	✓ 2. its current carrying capacity		
	X 3. frequency of the system		
	X 4. voltage drops in it		
	The state of the s		
		Question ID : 26433099245	
		Status : Answered	
		Chosen Option : 1	
Q.24	A coil having pure inductance of 0.2 H is connected in series wit voltage across the circuit is 230V, 50Hz. The active power consu		
	✓ 1. 0 watts	-	
Ans			
Ans	X 2. 10 watts		
Ans			
Ans	★ 3. 100 watts		
Ans			
Ans	★ 3. 100 watts	Question ID : 26433095559	
Ans	★ 3. 100 watts	Question ID : 26433095559 Status : Answered	

Q.25 The unit of magnetic flux in terms of lines of force is ___ \times 1. 1 wb = 10⁻⁸ lines of force \checkmark 2. 1 wb = 10^8 lines of force \times 3. 1 wb = 10^6 lines of force \times 4. 1 wb = 10⁻⁶ lines of force Question ID: 26433096840 Status: Answered Chosen Option: 4 Q.26 Which of the following statements is NOT true about a series LC circuit? √ 1. The total voltage across the terminals is equal to the difference between the voltage across the capacitor and voltage across inductor. X 2. It consumes some energy because of the non zero resistance of the components as connecting wires. 3. It is also known as a tank circuit. 4. It consumes no energy in the ideal form. Question ID: 26433095560 Status: Answered Chosen Option: 1 Q.27 When a rated load with 0.8 lagging power factor is supplied, the terminal voltage of a three phase star connected alternator with a certain interference is 6600 V (line-to-line value). With the same interference, the voltage developed in the open circuit is 7154 V (phase value). What will be the value of voltage regulation of the alternator? X 1. 46.7% × 2. −46.7% X 3. 14.54% 4. 87.8% Question ID: 26433096548 Status: Answered Chosen Option: 1 Q.28 Which of the following statements about film lighting is FALSE? X 1. A tungsten light has the maximum Colour Rendering Index used in film lighting. 2. The colour temperature of fluorescent lamps is lower than that of incandescent X 3. A tungsten light does not make use of mercury vapour lights as in fluorescent lamps. 4. Hydrargyrum Medium Arc Iodide (HMI) are flicker-free lights. Question ID: 26433098172 Status: Answered Chosen Option: 3



Ans	Norton's theorem can be applied to	
	★ 1. only nonlinear unilateral networks	
	★ 2. both linear and nonlinear networks	
	★ 4. only nonlinear networks	
		Question ID : 26433096465 Status : Answered
		Chosen Option: 3
Q.34	Which of the following statements is INCORRECT?	
Ans	1. While designing a distributor, voltage drop is not considered.	
	2. Service mains connect consumers to the distributor directly.	
	★ 3. Tapings are taken from the distributors for supply of consumers.	
	★ 4. Voltage drop is the main consideration in design of distributors.	
		Question ID : 26433099243
		Status : Answered
		Chosen Option : 2
Q.35	Which of the following statements are true? a) The electric power from 11 kV lines is delivered to distribution su	ub-station.
	b) Distribution sub-stations are located near consumers localities.	. 4
Ans	c) Distribution sub-stations step down the voltage to 400 V(L-L). 1. (a) and (c) only	
	× 2. (a) and (b) only	
	✓ 3. (a), (b) and (c)	
	* 4 (b) and (a) anly	
	X 4. (b) and (c) only	
	🗙 4. (b) and (c) only	Question ID : 26433099242
	\chi 4. (b) and (c) only	Status : Answered
	🗙 4. (b) and (c) only	
Q.36	A 230 V lamp has a total flux of 1000 lumens and takes a current of	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is:	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9	Status : Answered Chosen Option : 3
Q.36 Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9	Status : Answered Chosen Option : 3 0.5 A. The MSCP
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9	Status : Answered Chosen Option : 3
	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9 4. 0.138	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans Q.37	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9 4. 0.138 The ratio of the RMS value to the average value of an AC is known and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: 1. 1.38 2. 0.69 3. 6.9 4. 0.138 The ratio of the RMS value to the average value of an AC is known and takes a current of the RMS value to the average value of an AC is known and takes a current of the lamp is: 1. amplitude factor	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans Q.37	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: X 1. 1.38 2. 0.69 X 3. 6.9 X 4. 0.138 The ratio of the RMS value to the average value of an AC is known in the company of the company	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: X 1. 1.38 2. 0.69 X 3. 6.9 X 4. 0.138 The ratio of the RMS value to the average value of an AC is known at 1. amplitude factor X 2. crest factor X 3. peak factor	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: X 1. 1.38 2. 0.69 X 3. 6.9 X 4. 0.138 The ratio of the RMS value to the average value of an AC is known in the company of the company	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: X 1. 1.38 2. 0.69 X 3. 6.9 X 4. 0.138 The ratio of the RMS value to the average value of an AC is known at 1. amplitude factor X 2. crest factor X 3. peak factor	Status : Answered Chosen Option : 3 0.5 A. The MSCP Question ID : 26433098124 Status : Answered Chosen Option : 1
Ans	A 230 V lamp has a total flux of 1000 lumens and takes a current of per watt of the lamp is: X 1. 1.38 2. 0.69 X 3. 6.9 X 4. 0.138 The ratio of the RMS value to the average value of an AC is known at 1. amplitude factor X 2. crest factor X 3. peak factor	Status: Answered Chosen Option: 3 0.5 A. The MSCP Question ID: 26433098124 Status: Answered Chosen Option: 1

Q.38 A circuit has an inductance of 20H. If the current in the circuit changes at the rate of 50mA/sec, then self-induced EMF is _ X 2. 100 V √ 3. 1 V X 4. 1000 V Question ID: 26433096390 Status: Answered Chosen Option: 3 Q.39 Which of the following statements does NOT come under the advantages of stationary armature in an alternator? 1. It is easy to insulate sliprings which are on DC. Ans X 2. It needs only two slip rings on DC side. 3. The stator weight is less compared to rotor weight. X 4. Sparking at brushes is completely avoided. Question ID: 26433096555 Status: Answered Chosen Option: 4 Q.40 The cable rating suitable for connecting a load of 3 kW to a single-phase supply of 230 Ans X 1. 20 A X 2. 10 A X 3.5 A √ 4. 15 A Question ID: 26433099554 Status: Answered Chosen Option: 2 The Norton's equivalent current (IN) between A and B for the circuit is: X 1.0 A 🥓 3. 2.5 A X 4.1 A Question ID: 26433096464 Status: Not Answered Chosen Option: --

Q.42 The toroid is _____

Ans

- X 1. a circular carrying conductor
- 2. a long straight current carrying conductor bent to form circular shape
- X 4. a bar magnet

Question ID : 26433096920

Status : Answered

Chosen Option : 2

Q.43 What is the power factor angle of an RC series circuit?

Ans

- \times 1. $tan^{-1}(\frac{R}{cUU})$
- \times 2. $tan^{-1}(\frac{UI}{CR})$
- \times 3. $tan^{-1}(\frac{CR}{UI})$
- \checkmark 4. $tan^{-1}(\frac{1}{UCR})$

Question ID: 26433095561

Status : Answered

Chosen Option: 4

Q.44 A 4400-watt electric heater has a resistance of 11Ω . What will be the maximum permissible current?

Ans

- X 1. 400 amp
- X 2. 200 amp
- √ 3. 20 amp
- X 4. 40 amp

Question ID : 26433096394

Status : Answered

Chosen Option: 3

Q.45 A 120 Ω resistor is in parallel with a capacitor with a capacitive reactance of 40 Ω .Both components are across a 20 V AC source.What is the magnitude of the total current through the circuit?

Ans

- \times 1. $\sqrt{\frac{1}{120}}$ A
- \times 2. $\sqrt{\frac{1}{40}}$ A
- \checkmark 3. $\sqrt{\frac{5}{18}}$ A
- \times 4. $\sqrt{\frac{2}{9}}$ A

Question ID : 26433095548
Status : Not Answered

Chosen Option : --

_	transit time, the diffusion capacitance is		
ns			
	✓ 2.1 nF		
	X 3. 2 nF		
	★ 4. 90000 nF		
		Question ID : 26433096052	
		Status : Answered	
		Chosen Option : 4	
Q.47	What are the other systems, outside the driving and registering systems energy meter, make up the fundamental components of constants.		
Ans	★ 1. Series System, Braking System		
	✓ 2. Moving System, Braking System		
	★ 3. Moving System, Parallel System		
	★ 4. Magnetic Flux System, Shunt System		
		Question ID : 26433096494 Status : Answered	
		Chosen Option : 2	
Q.48	Which of the following statements is INCORRECT?		
Ans	★ 1. Future extension is easy for outdoor substation.		
	2. The cost of outdoor substation is higher than indoor substation.		
	✗ 3. Outdoor substation requires more space as compared to indoor substation.		
	X 4. Outdoor substation requires less time for erection.		
		Question ID: 26433099240 Status: Answered	
		Chosen Option : 2	
2.49	In an electric circuit, a 10V voltage source is connected in series w the dual of this circuit consists of:	ith a 2Ω resistance.	
Ans	X 1. 5A current source and a 2S conductance		
	✓ 2. 10A current source and a 2S conductance		
	★ 3. 10V voltage source and a 2S conductance		
	× 4. 5A current source and a 2Ω resistance		
	7 7. On current source and a 212 resistance		

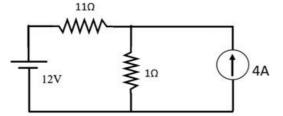
In the circuit shown below, the current I is: 10Ω 170V X 1. 12A **X** 2. −2A 🗙 3. 10A 🥒 4. 2A Question ID: 26433096477 Status: Not Answered Chosen Option: --Q.51 What is the voltage range generally used in medium transmission lines? 1. 20 kV to 100 kV X 2. 400 kV to 700 kV X 3. More than 700 kV X 4. 200 kV to 400 kV Question ID: 26433099229 Status: Answered Chosen Option: 1 Q.52 The area under daily integrated load duration curve is equal to the X 1. current generated per day X 2. voltage generated per day 3. frequency generated per day 4. units generated per day Question ID: 26433096606 Status: Answered Chosen Option: 4 Q.53 Consider the following statements about features of a hysteresis motor and select the suitable combination of correct choices. a.lts hysteresis torque remains practically constant from locked rotor to synchronous speed. b. Hysteresis motor is able to accelerate at any load. c.lt operates quietly and does not suffer from magnetic pulsations. d. Hysteresis motor is subject to mechanical vibrations. X 1. a, c and d are correct X 2. Only d is correct X 3. Only b is correct 🥓 4. a, b and c are correct Question ID: 26433096566 Status: Not Answered Chosen Option: --

ns	time.		
ns	X 1. huge load		
	X 2. less load		
	3. variation of load		
	X 4. constant load		
		Question ID : 26433096888	
		Status : Answered	
		Chosen Option : 3	
55	In the circuit shown below, the reading of the ideal ammeter and voltmeter, respectively, will be:		
	2Ω		
	10V T A V		
ns	3Ω ★ 1. 0A and 8V	1	
	X 2. 0A and 0V		
	X 3. 2A and 8V		
	✓ 4. 2A and 0V		
	i. Evana ov		
		Question ID : 26433096458	
		Status : Answered	
		Chosen Option : 1	
.56	An overall power generation economics is E= a+bKW+ckWH,	where c is	
ns	★ 1. waste charge		
	★ 2. constant charge		
	★ 4. fixed charge		
		Question ID : 26433096592	
		Status : Answered Chosen Option : 2	
		Onesen Option : 2	
	Angle reflectors are used to provide illumination in a vertical used are of the	plane, where reflectors	
ns	★ 1. standard type		
	2. concentrating type		
	X 3. enclosed type		
	★ 4. diffusing type		
		Over-fire ID : 0040000000	
		Question ID : 26433099283 Status : Answered	
		Chosen Option : 2	
		The state of the s	

Q.59 Wi	rough it is: ✓ 11.2 sin(6000t) amp X 2. 1.2 cos(6000t) amp X 31.2 cos(6000t) amp X 4. 1.2 sin(6000t) amp ✓ 1. The reluctance in magnetic circuits is analogous to the resist 2. The reluctance of a magnetic circuit depends on the material	-
Q.59 Wi Ans	 ★ 31.2 cos(6000t) amp ★ 4. 1.2 sin(6000t) amp /hich of the following statements is WRONG with respect to r ★ 1. The reluctance in magnetic circuits is analogous to the resistance. 	Status : Answered Chosen Option : 1 magnetic circuits?
Q.59 Wi Ans	 ★ 4. 1.2 sin(6000t) amp /hich of the following statements is WRONG with respect to r ★ 1. The reluctance in magnetic circuits is analogous to the resistance. 	Status : Answered Chosen Option : 1 magnetic circuits?
Q.59 Wi Ans	/hich of the following statements is WRONG with respect to r ★ 1. The reluctance in magnetic circuits is analogous to the resi	Status : Answered Chosen Option : 1 magnetic circuits?
Ans	★ 1. The reluctance in magnetic circuits is analogous to the resistance.	Status : Answered Chosen Option : 1 magnetic circuits?
Ans	★ 1. The reluctance in magnetic circuits is analogous to the resistance.	Status : Answered Chosen Option : 1 magnetic circuits?
Ans	★ 1. The reluctance in magnetic circuits is analogous to the resistance.	magnetic circuits?
Ans	★ 1. The reluctance in magnetic circuits is analogous to the resistance.	-
Ans	★ 1. The reluctance in magnetic circuits is analogous to the resistance.	-
7	X 2. The reluctance of a magnetic circuit depends on the materi	stance in electric circuits.
		al used in it.
•	✗ 3. The flux in magnetic circuits is analogous to the current in expression.	electric circuits.
		Question ID : 264330100953
		Status : Answered Chosen Option : 3
		Onoscii Option . 3
Ans	Reluctance motors have constant speed characteristics. 1. b, c and d are correct 2. a, b and d are correct 3. a, c and d are correct 4. a, b and c are correct	
•	a, b and b are seriest	
		Question ID: 26433096569
		Status : Answered Chosen Option : 3
		Gliocell Space . S
Ans	2 kVA, 200/100 V, 400 Hz transformer is desired to be used at //hat will be the voltage rating of the transformer at reduced frensity remains constant? 1. 25 V 2. 23 V 3. 41 V 4. 37 V	
		Question ID : 26433096090 Status : Answered
		Chosen Option : 1
	he boiler generates steam at	
Ans 🥻	★ 1. high pressure and low temperature	
Ans 7	★ 1. high pressure and low temperature★ 2. high pressure and high temperature	
Ans	 ★ 1. high pressure and low temperature ★ 2. high pressure and high temperature ★ 3. low pressure and high temperature 	
Ans	★ 1. high pressure and low temperature★ 2. high pressure and high temperature	

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 $Q.63\,$ For the circuit shown below, the voltage across the 11Ω resistor is given by:



Ans

 $\times 1.\frac{2}{3} \text{ V}$

X 2. O V

 \checkmark 3. $\frac{22}{3}$ V

X 4. 1V

Question ID : 26433096445 Status : Answered

Chosen Option: 3

Q.64 The effective resistance of a 2200 V, 50 Hz, 440 KVA, single-phase alternator is 0.5 Ω . On short circuit, a field current of 40 A gives the full load current of 200 A. The electromotive force on open circuit with same field excitation is 1160 V. Calculate the synchronous impedance.

Ans

🗶 1. 2.8 Ω

× 2. 3.8 Ω

3. 5.8 Ω

Χ 4. 4.8 Ω

Question ID: 26433096560

Status: Not Answered

Chosen Option : --

Q.65 Under phantom loading testing of an energy meter, the power required to test is

Λnc

X 1. 1

X 2. infinite

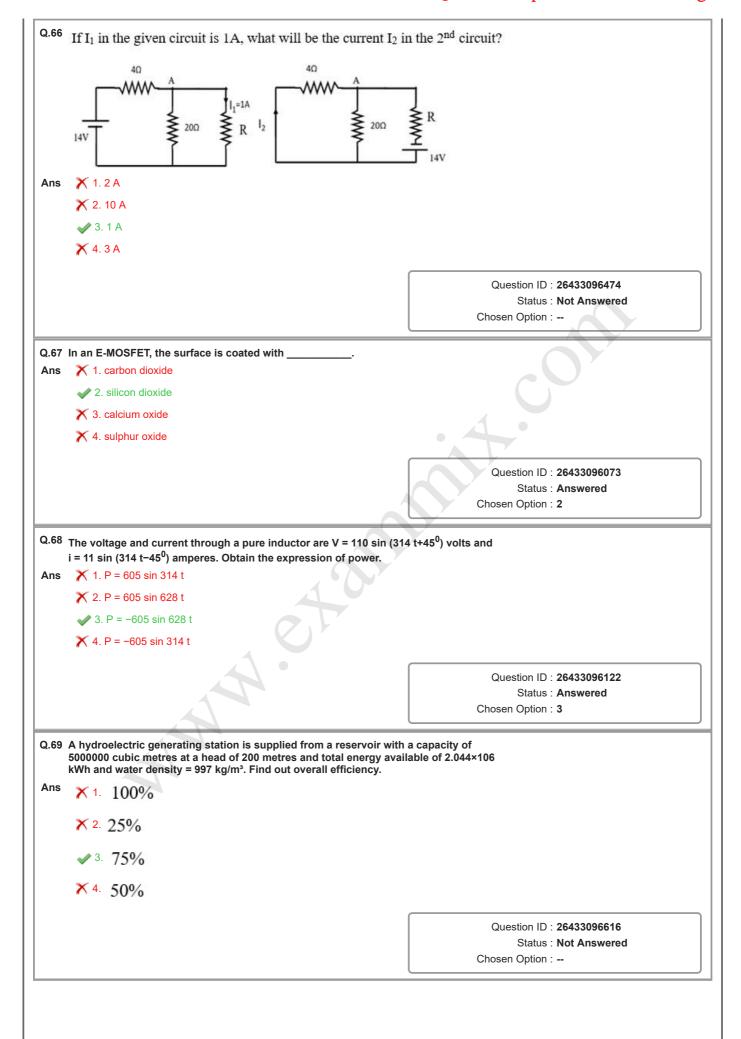
X 3. very high

4. very low

Question ID: 26433096906

Status : Answered

Chosen Option : 1



	The insulating oil used in transformers is obtained by fraction		
Ans	X 1. vegetable oil		
	2. crude petroleum		
	✗ 3. both animal oil and vegetable oil		
	X 4. animal oil		
		Question ID : 26433096102	
		Status : Answered	
		Chosen Option : 2	
Q.71	Choose the correct classification for Hydro power plant.		
Ans	★ 1. Non-renewable source of energy		
	2. Conventional source of energy		
	★ 3. Continuous source of energy		
	★ 4. Non-conventional source of energy		
	• (
		Question ID : 26433096614	
		Status : Answered	
		Chosen Option : 2	
Q.72	Which of the following concepts is applied in instruments of	the electrodynamometer	
	type?		
Ans	1. The force between two current carrying coils		
	★ 2. The force between two permanent magnets		
	★ 3. Magnitude effect		
	★ 4. The force between a permanent magnet and a current carrying coil		
		Question ID : 26433096492 Status : Answered	
		Chosen Option : 4	
	A tender is usually accompanied with an amount called	·	
Ans	✓ 1. earnest money		
	★ 2. purchase money		
	★ 3. tender money		
	★ 3. tender money	Out affine ID 1 00 422000075	
	★ 3. tender money	Question ID : 26433099276 Status : Answered	
	★ 3. tender money	Question ID : 26433099276 Status : Answered Chosen Option : 1	
	★ 3. tender money	Status : Answered	
Q.74	✗ 3. tender money✗ 4. delivery money Which of the following statements regarding the absorption	Status : Answered Chosen Option : 1	
Q.74 Ans	X 3. tender money X 4. delivery money Which of the following statements regarding the absorption is correct?	Status : Answered Chosen Option : 1 factor in lighting purposes	
	 X 3. tender money X 4. delivery money Which of the following statements regarding the absorption is correct? X 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. 	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been	
	 ✗ 3. tender money ✗ 4. delivery money Which of the following statements regarding the absorption is correct? ✗ 1. It is defined as the ratio of the change in the brightness a 	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been	
	 ✗ 3. tender money ✗ 4. delivery money Which of the following statements regarding the absorption is correct? ✗ 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. ✗ 2. It is defined as the ratio of the candle power before and a 3. It is defined as the ratio of total lumens available after ab 	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been fter absorption of light.	
	Which of the following statements regarding the absorption is correct? *\times 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. *\times 2. It is defined as the ratio of the candle power before and a \$\times 3\$. It is defined as the ratio of total lumens available after ab emitted by the source of light.	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been fter absorption of light. sorption to the total lumens	
	 ✗ 3. tender money ✗ 4. delivery money Which of the following statements regarding the absorption is correct? ✗ 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. ✗ 2. It is defined as the ratio of the candle power before and a 3. It is defined as the ratio of total lumens available after ab 	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been fter absorption of light. sorption to the total lumens	
	Which of the following statements regarding the absorption is correct? *\times 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. *\times 2. It is defined as the ratio of the candle power before and a \$\times 3\$. It is defined as the ratio of total lumens available after ab emitted by the source of light.	Status : Answered Chosen Option : 1 factor in lighting purposes fter the light has been fter absorption of light. sorption to the total lumens	
	Which of the following statements regarding the absorption is correct? *\times 1. It is defined as the ratio of the change in the brightness a absorbed by the surface. *\times 2. It is defined as the ratio of the candle power before and a \$\times 3\$. It is defined as the ratio of total lumens available after ab emitted by the source of light.	Status: Answered Chosen Option: 1 factor in lighting purposes fter the light has been fter absorption of light. sorption to the total lumens ation factor.	

	The Sun is the source of energy.		
Ans	1. primary 2. secondary		
	X 3. fourth		
	X 4. third		
		Question ID : 26433096623	
		Status : Answered Chosen Option : 1	
		Chosen Option . I	
Q.76	Extra high-tension cables are used for the voltage level of	f .	
Ans	X 1. 132 kV to 400 kV		
	X 2. 0 to 1 kV		
	✓ 3. 33 kV to 66 kV		
	X 4. beyond 400 kV		
	A - Boyona 400 KV		
		Question ID : 26433099251	
		Status : Answered	
		Chosen Option : 4	
o ==	Which of the fallowing statements and the	A A A Aba Uma a umand umand Um	
	Which of the following statements are correct with respect transmission and distribution lines?	ct to the line support used in	
	Must have high mechanical strength. Should have longer life.		
	c. Should be light in weight without the loss of mechanical	al strength.	
Ans	✓ 1. (a), (b) and (c)		
	★ 2. (a) and (c) only		
	★ 3. (a) and (b) only		
	★ 4. (b) and (c) only		
		Question ID : 26433099262	
		Status : Answered Chosen Option : 1	
		Chosen Option . I	
Q.78	A sinusoidal quantity can be expressed as:		
Ans	★ 1. polar form only		
	2. either polar or rectangular form		
	X 3. rectangular form only		
	X 4. co-ordinate form only		
		Question ID : 26433095557	
		Status : Answered	
		Chosen Option : 2	
Q.79 Ans	Which of the following methods can result in a square wa 1. Hartley oscillator	verorm?	
	2. Multivibrators		
	X 3. Wien bridge oscillators → → → → → → → → → → → → → → → → → → →		
	X 4. T-oscillator		
		Over-Here ID : 201222222	
		Question ID : 26433096503 Status : Answered	
		Chosen Option: 1	
		1	

Q.80	Which of the following statements about voltage regulation of an a correct?	Iternator is NOT	
Ans			
	regulation.		
	★ 2. Parallel operation of one alternator, with other alternators, is affected considerably by its voltage regulation.		
	X 3. Steady state short-circuit conditions and stability are affected by the voltage		
	regulation. X 4. Voltage regulation determines the type of automatic voltage-control equipment to be		
	used.		
		Question ID : 26433096547	
		Status : Answered	
		Chosen Option : 4	
Q.81	Demand factor is taken as a		
Ans	1. current independent quantity		
	× 2. time dependent quantity		
	★ 4. current dependent quantity		
		Question ID : 26433099561	
		Status : Answered Chosen Option : 2	
	Starting torque in 1-ph IM is zero as		
Ans	1. Tf and Tb are numerically unequal and oppositely directed		
	✓ 2. Tf and Tb are numerically equal and oppositely directed		
	X 3. Tf and Tb are numerically equal and in same direction		
	X 4. Tf and Tb are numerically unequal and in same direction	γ'	
		Question ID : 26433098255	
		Status : Answered	
		Chosen Option : 3	
Q.83	The susceptibility of which of the following magnetic materials is r	negative?	
Ans	✓ 1. Diamagnetic materials		
	X 2. Ferromagnetic materials		
	X 3. Paramagnetic materials		
	X 4. Paramagnetic and ferromagnetic materials		
		Question ID : 26433096878	
		Status : Answered	
		Chosen Option : 3	
 Q.84	The lifting power of a magnet is inversely proportional to		
Ans	1. radius of the conductor		
	X 2. square of the magnetic flux density		
	X 4. cross-sectional area		
		Question ID : 26433096857	
		Status : Answered Chosen Option : 2	

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Q.85 A 4-pole, DC series motor has a wave connected armature with 200 conductors. The flux per pole is 20 m Wb when the motor is drawing 20 A from the supply. The back EMF of the motor is 200 V. Calculate the speed of the motor under this condition.

Ans

X 1. 1450 rpm

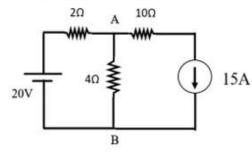
X 2. 1893 rpm

X 3. 1374 rpm

√ 4. 1500 rpm

Question ID : 26433096088 Status : Answered Chosen Option : 4

Q.86 The current in the 4Ω resistor in the figure shown below is:



Ans

 \checkmark 1. $\frac{5}{3}$ A and flowing from B to A

 \times 2. $\frac{5}{3}$ A and flowing from A to B

🗙 3. zero

 \times 4. $\frac{-20}{3}$ A and flowing from A to B

Question ID : 26433096441 Status : Answered Chosen Option : 4

Q.87 In the figure shown below, if the current I decreases at a rate of β , then $V_P - V_Q$ is:



Ans

X1. O V

 \times 2. L× $\frac{di}{dt}$ × β

√ 3. −L β

× 4. + L β

Question ID : 26433096400 Status : Answered

Chosen Option: 2

Q.88 Which of the following statements about armature reaction of alternator is NOT correct? X 1. When the generator is loaded, the armature carries the current; the armature current Ans sets up its own magnetic field. X 2. It reduces the generated voltage by distorting the main flux and it causes sparking at the brushes. 3. It depends on both load current and power factor. 4. It increases the generated voltage and sparking at brushes reduces. Question ID: 26433096558 Status: Answered Chosen Option: 3 Q.89 Which of the following options is true with respect to extending the range of a wattmeter using instrument transformers? Ans X 1. The primary winding of current transformer is connected in parallel with the load. 2. The primary winding of potential transformer is connected in series with the load. coil of wattmeter and ammeter. X 4. The secondary winding of potential transformer is connected in series with the pressure coil of wattmeter and voltmeter. Question ID: 26433096902 Status: Answered Chosen Option: 3 Q.90 The standard illumination level for a workshop area where detailed or fine work is done is in the range of: X 1. 200-300 lux X 2. 800-1000 lux 4. more than 1000 lux Question ID: 26433098125 Status: Answered Chosen Option: 2 Q.91 Which of the following is the unit of reluctance? X 1. Weber/meter 2. Ampere – turn/weber X 3. Henry/ampere-meter X 4. Ohm – meter/ampere Question ID: 26433096846 Status: Answered Chosen Option: 3 Q.92 The resistivity of a wire depends on: X 1. only the radius of the wire 2. the nature of the material of the wire X 3. both the length and area of the cross-section of the wire X 4. only the length of the wire

Question ID: 26433096404 Status: Answered

Chosen Option: 2

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Q.93 The diffusion capacitance for a silicon diode with 20mA forward current, if the charge carrier transit time is 70 ns, is _ X 2. 1 nF X 3. 2 mF X 4. 1 mF Question ID: 26433096049 Status: Answered Chosen Option: 3 Q.94 The electric potential at point A is 60 V and at B is - 90 V. Find the work done by an external force and electrostatic force, respectively, in moving an electron slowly from Ans \times 1. 240 × 10⁻¹⁹ J and 240 × 10⁻¹⁹ J \times 2. Zero and 240 \times 10⁻¹⁹J \times 3. 240 × 10⁻¹⁹ J and zero \checkmark 4. -240×10^{-19} J and 240×10^{-19} J Question ID: 26433098273 Status: Not Answered Chosen Option: --Q.95 A 2200/1100 V, 50 Hz single-phase transformer having a negligible winding resistance operates from a variable voltage, variable frequency supply such that V/f is constant. Which of the following options is correct about the range of frequencies? 1. no variation either in eddy current or hysteresis loss 2. both hysteresis loss and eddy current loss varies X 3. hysteresis loss vary and constant eddy current loss X 4. eddy current loss vary and constant hysteresis loss Question ID: 26433096695 Status: Answered Chosen Option: 4 Q.96 The active and lagging reactive components of current taken by an AC circuit from a 200 V supply are 40A and 30A, respectively. What is the value of admittance of the circuit? X 1. 0.52 S Ans X 2. 0.13 S X 3. 0.31 S

