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

Roll Number	
Candidate Name	
Venue Name	
Exam Date	14/11/2022
Exam Time	5:00 PM - 7:00 PM
Subject	Junior Engineer 2022 Electrical

Section: General Intelligence and Reasoning

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Q.1 Ten people are sitting in two parallel rows with five people each in such a way that there is equal distance between adjacent persons.

In row I – P, Q, R, S and T are seated and all of them are facing south.

In row II – A, B, C, D and E are seated and all of them are facing north.

R sits between S and P. D sits at the extreme right end of their row exactly opposite Q. B sits at the centre of their row exactly opposite P. E sits exactly opposite R. C is the immediate neighbour of D.

Who sits at the extreme left end of the row of the people facing North?

Ans X 1. B

💢 2. D

X 3. E

√ 4. A

Question ID : 26433068752

Status : Answered

Chosen Option: 4

- Q.2 Arrange the following in a logical and meaningful order.
  - 1. Brown
  - 2. Brief
  - 3. Built
  - 4. Beach
  - 5. Blame
  - 6. Birth

**Ans** X 1. 1, 5, 6, 4, 3, 2

**X** 2. 2, 6, 5, 4, 3, 1

**X** 3. 1, 3, 2, 6, 4, 5

**4**. 4, 6, 5, 2, 1, 3

Q.3 Which of the following interchanges of numbers would make the given equation correct?

 $12 \times 7 \div 4 + 12 - 20 = 5$ 

Ans

1. 5 and 7

X 2. 7 and 20

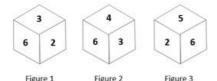
X 3. 4 and 12

💢 4. 4 and 5

Question ID : 26433067485 Status : Answered

Chosen Option : 1

Q.4 Three different positions of the same dice are shown (Figures 1-3). Find the number on the face opposite to the face having '1'.



Ans X 1.4

**X** 2. 3

**X** 3.5

**4**. 6

- Q.5 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
  - 1. Avenue
  - 2. Autograph
  - 3. Avalanche
  - 4. Automatic
  - 5. Available
- 6. Autonomy

**2**. 4, 2, 6, 5, 3, 1

**X** 3. 2, 4, 6, 5, 1, 3

**X** 4. 2, 4, 5, 6, 3, 1

Question ID : 26433068476

Status : Answered

Chosen Option: 1

Q.6 Aman, Baban, Charu, Deepak, Esha, Fizza, and Garv are seven friends. All have different heights. Baban is taller than Fizza but shorter than Esha. Esha is not the tallest. Aman is taller than both Fizza and Charu. Charu is taller than Garv. Aman is taller than only 3 friends. Who is the tallest?

Ans

X 1. Garv

💢 2. Baban

3. Deepak

X 4. Fizza

Q.7 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

6:252::4:?::9:810

Ans X 1. 78

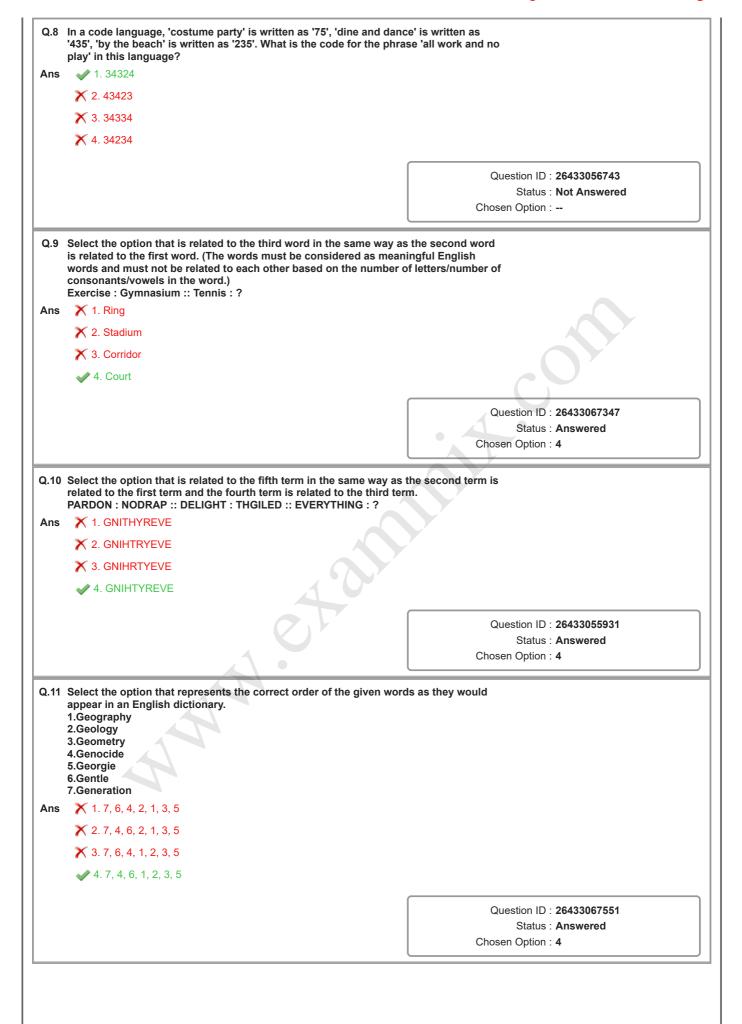
**X** 2. 82

**3**. 80

**X** 4. 75

Question ID : 26433067910 Status : Answered

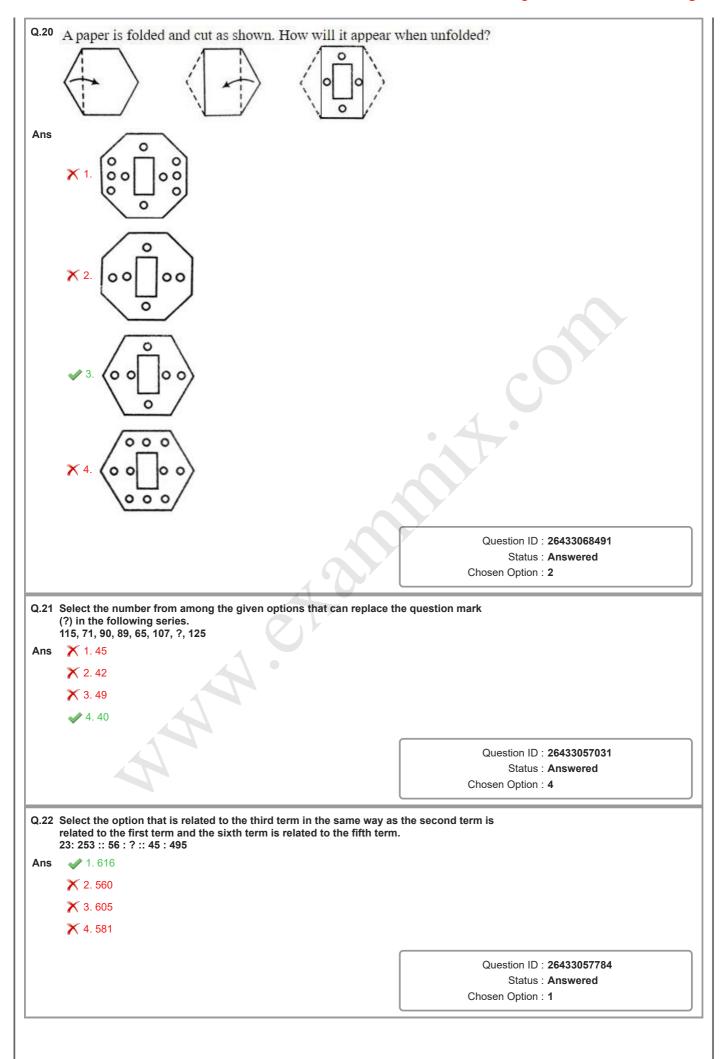
Chosen Option: 3

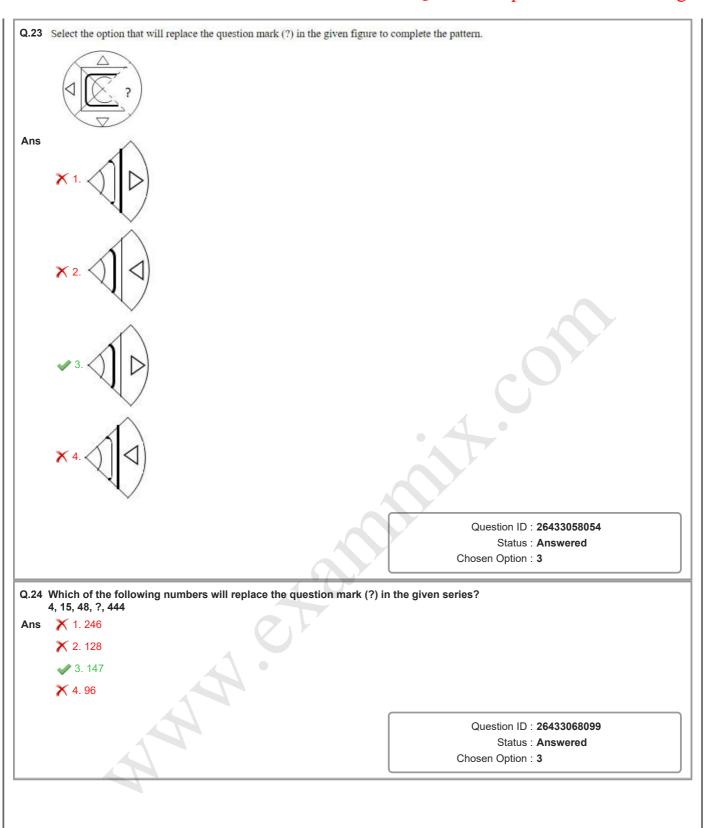


Q.12 In a certain code language, 'LIMITED' is written as 'MJNHUFE' and 'NEUTRAL' is written as 'OFVSSBM'. How will 'ORGANIC' be written in that language? X 2. NQFZMHB 3. PSHZOJD X 4. NSIBCKE Question ID: 26433056578 Status: Answered Chosen Option: 3 Q.13 In a certain code language, 'HIDE' is written as '6723' and 'FORT' is written as '4131618'. How will 'DUTY' be written in that language? X 1. 24986 Ans 2. 2191823 **X** 3. 42998 X 4. 349186 Question ID: 26433056582 Status: Answered Chosen Option: 2 Q.14 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 dogs are pets. Some dogs are stray. Conclusions: I. Some pets are dogs. II. Some pets are stray. 1. Both conclusions I and II follow X 2. Only conclusion II follows X 3. Only conclusion I follows X 4. Neither conclusion I nor II follows Question ID: 26433056693 Status: Answered Chosen Option: 1 Q.15 Select the correct combination of mathematical signs that can sequentially replace "%" and balance the given equation. 32 % 4 % 12 % 4 % 6 % 5 % 1 Ans X 1. +, -, ÷, ×, =, + X 2. -, +, ×, =, ÷, + X 3. -, +, ÷, ×, =, + √ 4. −, +, ÷, =, ×, + Question ID: 26433067487 Status: Answered Chosen Option: 4

Q.16 Select the option that is related to the fourth term in the same way as the first term is related to the second term and fifth term is related to sixth term. 91:6::7:7::169:8 **1.** 127 Ans X 2. 125 X 4. 105 Question ID: 26433057502 Status: Answered Chosen Option: 1 Q.17 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.) Norway: Oslo:: Thailand:? X 1. Kathmandu X 2. Singapore X 3. Hong Kong 4. Bangkok Question ID: 26433067385 Status: Answered Chosen Option: 4 Q.18 In a code language, 'FRIEND' is written as 'UIRVMW', 'STRANGER' is written as 'HGIZMTVI'. How will 'CUSTOMER' be written in that language? X 1. XHFGNLVI 2. XFHGLNVI X 3. YEGHLNVI X 4. XHEGLMUI Question ID: 26433056762 Status: Answered Chosen Option: 2 Q.19 Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.

\_ H A \_ I S \_ A C \_ A R I \_ M A C H \_ R \_ S M A Ans X 1. MRCAIHS X 2. C M R H A S I ✓ 3. CRMHSAI X 4. MRCSHAI Question ID: 26433067744 Status: Answered Chosen Option: 3

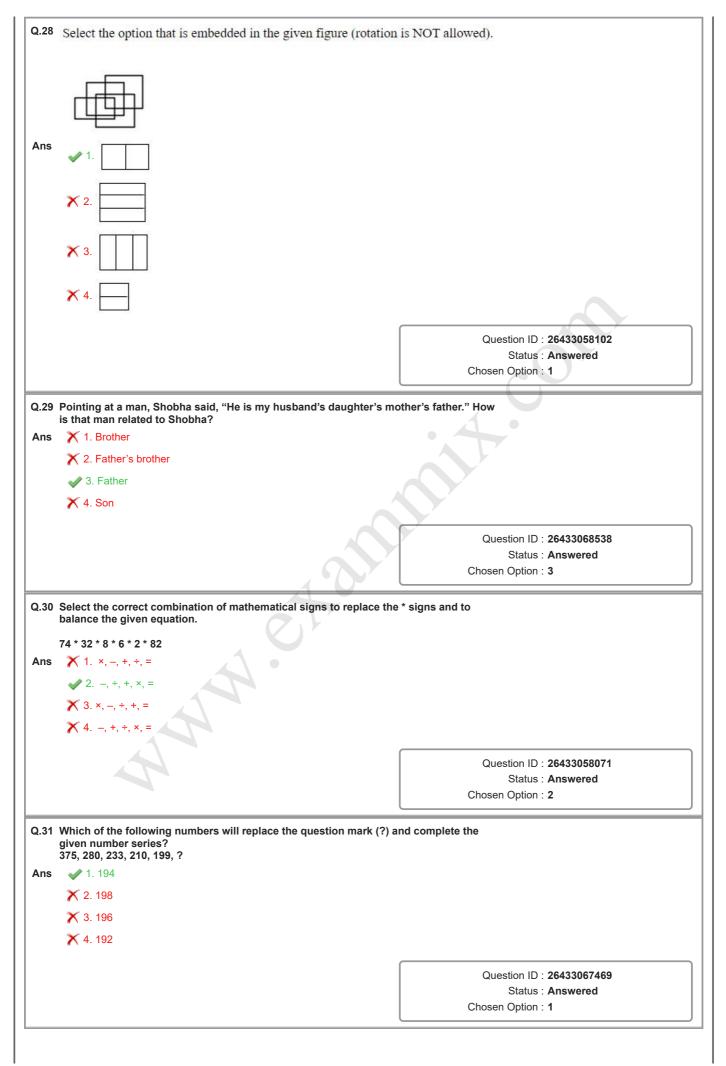




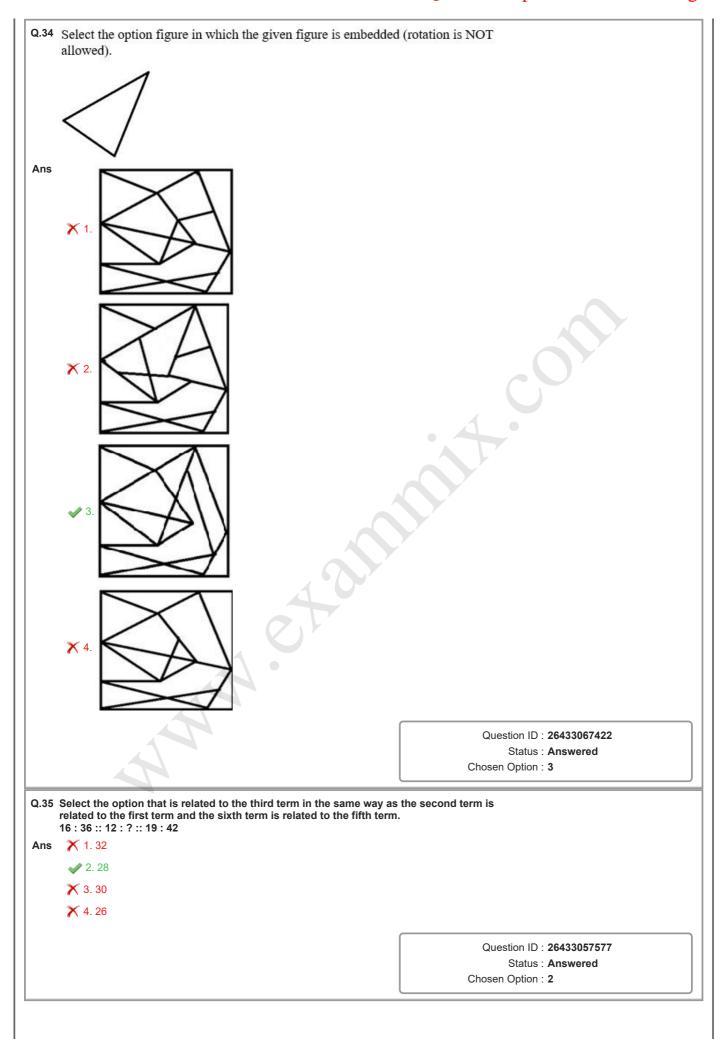
Q.25 In this question, three statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion(s) logically follow(s) from the Statements: All girls are students. All students are leaders. Some leaders are brave. Conclusions: I. All girls are leaders. II. Some girls are brave. 1. Both conclusions I and II follow. X 2. Only conclusion II follows. 3. Only conclusion I follows. X 4. Neither conclusion I nor II follows. Question ID: 26433057923 Status: Answered Chosen Option: 1 Q.26 Select the word-pair in which the two words are related in the same way as are the two words in the given pair. (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 Fragile: Tough 1. Hastily : Leisurely X 2. Gorgeous : Dazzling X 3. Glory: Renown X 4. Immense : Huge Question ID: 26433068483 Status: Answered Chosen Option: 1 Q.27 Pointing to a lady, Prakash said, "The daughter of her only sister is the sister of my wife". How is the lady related to Prakash? X 1. Mother's sister Ans X 2. Step mother 3. Sister of mother-in-law X 4. Grandmother Question ID: 26433040793

Chosen Option: 3

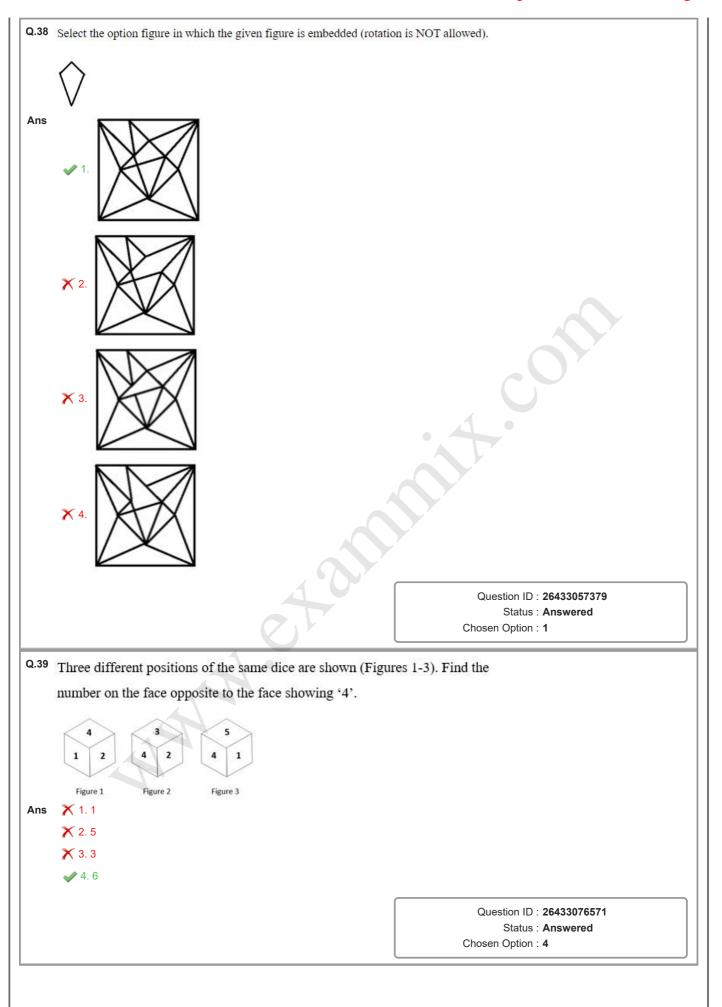
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Q.32 Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter series. H\_KN\_QTUW\_A\_F X 1. IPZC 2. IOZC X 3. IOYC X 4. JOZC Question ID: 26433066014 Status: Answered Chosen Option: 2 Q.33 Select the option that represents the letters that when placed from left to right in the blanks below will complete the letter series. \_LM\_O\_I\_MP\_D\_LM\_O\_I\_M\_OD X 1. IPLDIOPDLP 2. IPDLOIPDLP X 3. IPLDOIPDLP X 4. IPDLOIDPLP Question ID: 26433059874 Status: Answered Chosen Option: 2

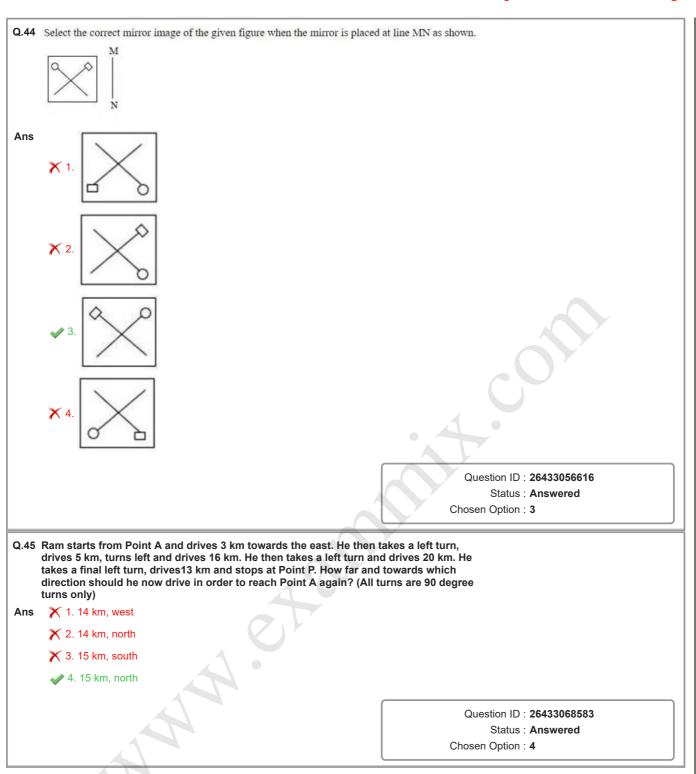


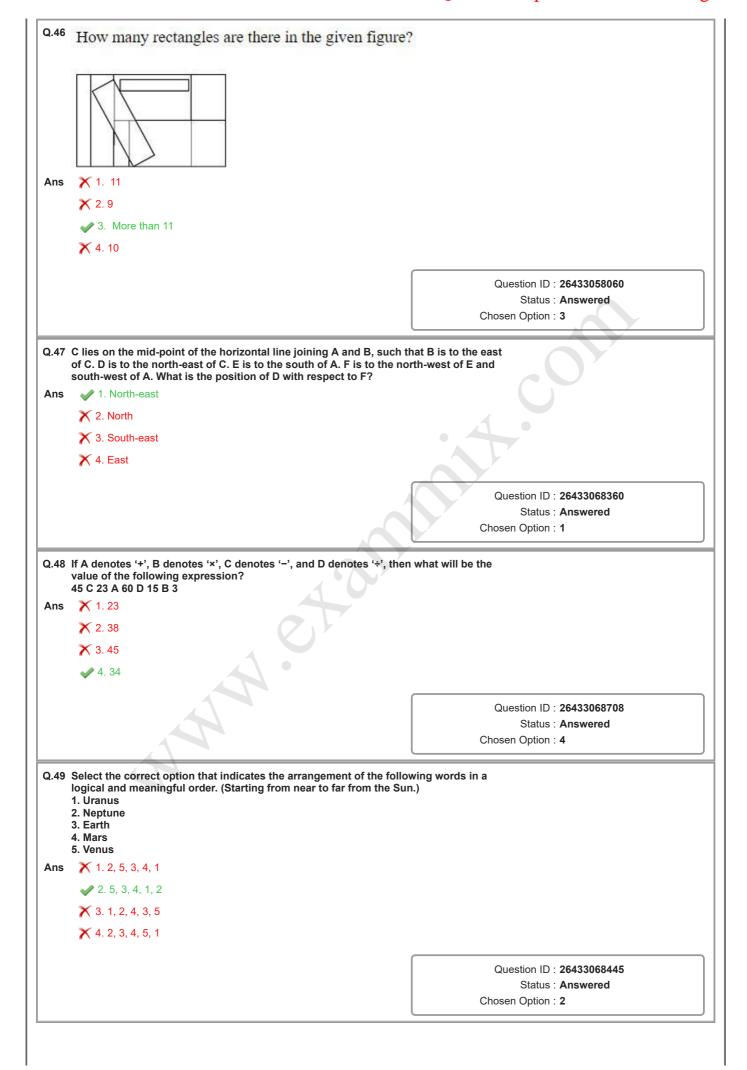
Q.36 Which of the given letter-clusters will replace the question mark (?) in the following series? DUZB, FSXD, HQVF, ?, LMRJ Ans X 1. JPTH X 2. JNTH X 3. JOUH 4. JOTH Question ID: 26433056137 Status: Answered Chosen Option: 1 Q.37 Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (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 Bee: Hive X 1. Bear : Stable X 2. Jack : Jill X 3. Camel : Caravan 4. Spider : Web Question ID: 26433091426 Status : Answered Chosen Option: 4



	Seven people, A, B, C, D, E, F and G, are sitting in a two people sit to the left of G. Only two people sit b. F. D is an immediate neighbour of F to the right. On	netween A and F. A sits to the left of ally one person sits to the right of B.
Ans	E is not an immediate neighbour of G. How many p 1.5	eopie sit between E and A?
1110	<b>X</b> 2. 2	
	X 3.3	
	× 4.4	
Q.41	Select the option that is related to the fourth term is related to the second term and fifth term is related	
	25 : 5 :: ? : 10 :: 1600 : 20	
Ans	<b>√</b> 1. 200	
	<b>X</b> 2. 100	
	<b>×</b> 3. 1000	
	<b>★</b> 4. 400	
		Question ID : 26433057500
		Status : Answered
		Chosen Option : 1
	Fig.1 Fig.2 Fig.2	
Ans	Fig 1 Fig 2 Fig 3  X 1. 1  X 2. 4  3. 3  X 4. 6	
Ans	X 1.1 X 2.4 ✓ 3.3	
Ans	X 1.1 X 2.4 ✓ 3.3	Question ID : 26433076713 Status : Answered
uns	X 1.1 X 2.4 ✓ 3.3	Question ID : 26433076713 Status : Answered Chosen Option : 3
	<ul> <li>X 1.1</li> <li>X 2.4</li> <li>✓ 3.3</li> <li>X 4.6</li> </ul> Select the option that represents the letters that, wiright in the blanks below, will complete the letter set	Status : Answered Chosen Option : 3  hen sequentially placed from left to
.43	<ul> <li>X 1.1</li> <li>X 2.4</li> <li>✓ 3.3</li> <li>X 4.6</li> </ul> Select the option that represents the letters that, w	Status : Answered Chosen Option : 3  hen sequentially placed from left to
.43	X 1.1  X 2.4  3.3  X 4.6  Select the option that represents the letters that, where the complete the letter set that the complete that the complete the letter set that the complete that the	Status : Answered Chosen Option : 3  hen sequentially placed from left to
.43	X 1.1  X 2.4  3.3  X 4.6  Select the option that represents the letters that, we right in the blanks below, will complete the letter set LR_DLRM_L_MDD  1. MDRLRM	Status : Answered Chosen Option : 3  hen sequentially placed from left to
	X 1.1  X 2.4  3.3  X 4.6  Select the option that represents the letters that, where the selection of the sel	Status : Answered Chosen Option : 3  hen sequentially placed from left to

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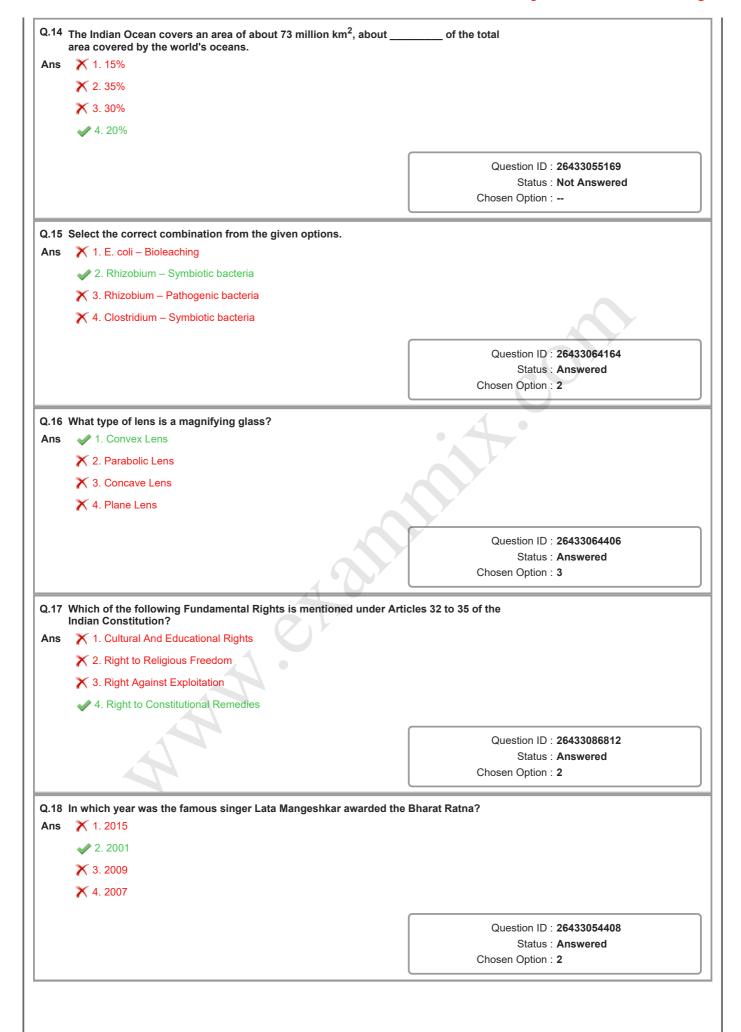




Q.50	Select the option that indicates the correct arrangement of the give and meaningful order.  1. Elephant 2. Cat 3. Ant 4. Horse 5. Caterpillar  1. 3, 4, 1, 2, 5  2. 2, 1, 4, 3, 5  3. 3, 2, 5, 4, 1  4. 3, 5, 2, 4, 1	Question ID : 26433074669 Status : Answered Chosen Option : 4
Section	on : <b>General Awareness</b>	
Q.1	Which of the following books was written by the Roman writer Plin who wrote in this book that Rome was wasting its gold reserves by	
Ans	★ 1. Geographica	
	✓ 2. Natural History	
	X 3. Indica	
	★ 4. Periplus of the Erythraean Sea	1.
		Question ID : 264330100038 Status : Answered Chosen Option : 2
Q.2	In 1893, Swami Vivekananda participated in the All-World Religious (Parliament of Religions) in in the United States o	
Ans	★ 1. Los Angeles	
	✓ 2. Chicago	
	★ 3. San Diego	
	X 4. Dallas	
		Question ID : 26433081964
		Status : Answered
		Chosen Option : 2
Q.3	Which of the following states is having the lowest literacy rate in Ir census?	ndia as per the 2011
Ans	X 1. Uttar Pradesh	
	X 2. Assam	
	X 3. Punjab	
		Question ID : 26433089253
		Status : Answered
		Chosen Option : 4

ατ	The Mediation Bill 2021, seeks to introduce mandatory pre-li requiring the attendance of parties in at least medi	
Ans	<b>★</b> 1. five	
	✓ 2. two	
	X 3. three	
	X 4. four	
	• •	
		Question ID : 26433086874
		Status : Not Answered
		Chosen Option :
Q.5	Which product is derived from limestone and diatomaceous antacid and as an anticaking agent in the preparation of food	
Ans	✓ 1. Calcium silicate	
	X 2. Potassium sulfate	
	★ 3. Sodium ferrocyanide	
	X 4. Disodium phosphate	
		Question ID: 26433055140
		Status : Answered
		Chosen Option : 1
Q.6	Which of the following halogens are solid and liquid at room	temperature,
Ans	respectively?  1. lodine and bromine	
Alis		
	X 2. Bromine and fluorine	
	★ 3. Chlorine and bromine	
	X 4. Fluorine and chlorine	
		Question ID : 26433082202
		Status : Answered
		Chosen Option : 1
	Which of the following is a public sector asset?  1. Ranbaxy Laboratories Limited	
Ans		
	★ 2. Reliance Industries Limited  ■ Control of the Control of	
	★ 3. Tata Iron and Steel Company Limited	
	✓ 4. Post office	
		Question ID : 264330100717
		Status: Not Answered
		Chosen Option :
	C <sub>n</sub> H <sub>2n</sub> belongs to which of the following?	
Ans	★ 1. Unsaturated salts	
	★ 2. Saturated hydrocarbon	
	★ 3. Saturated minerals	
	✓ 4. Unsaturated hydrocarbon	
		Question ID : 26433071434
		Status : Answered
		Chosen Option : 2

	Which is a colourless, odourless gas of the alkane chemical formula of $C_3H_8$ ?	series of hydrocarbons with a
Ans	X 1. Pentane	
	X 2. Butane	
	✗ 3. Ethane	
	✓ 4. Propane	
	4.1 Topano	
		Question ID : 264330100018
		Status : Answered
		Chosen Option : 2
Q.10	The male and female literacy rates in 2011 Census%, respectively.	were recorded as% and
Ans	<b>✓</b> 1. 82.14; 65.46	
	× 2. 82.76; 49.46	
	<b>★</b> 3. 80.12; 74.04	
	<b>X</b> 4. 79.64; 65.46	
	,	
		Question ID : 26433069791
		Status : Answered
		Chosen Option : 1
Q.11	Who is remembered as the pioneer of mitosis rese cytogenetics?	arch and the founder of
Ans	✓ 1. Walther Flemming	
	X 2. Albert Von Kolliker	
	X 3. Martin Evans	
	<ul><li>✗ 4. Pierre Joseph Pelletier</li></ul>	
	4. Florie desepti i cilcael	<u> </u>
		Question ID : 26433055794
		Status : Not Answered
		Chosen Option :
Q.12	In which year was the first national athletic meet of efforts of Dr. AC Nehren of YMCA Madras?	rganised in New Delhi with the
Q.12 Ans		rganised in New Delhi with the
	efforts of Dr. AC Nehren of YMCA Madras?	rganised in New Delhi with the
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934	rganised in New Delhi with the
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924	rganised in New Delhi with the
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930	rganised in New Delhi with the
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930	Question ID : 26433059363
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930	Question ID : 26433059363 Status : Not Answered
	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930	Question ID : 26433059363
Ans	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930	Question ID : 26433059363 Status : Not Answered Chosen Option :
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum for the or	Question ID : 26433059363 Status : Not Answered Chosen Option :
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum for the Orchid Paphiopedilum	Question ID : 26433059363 Status : Not Answered Chosen Option :
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  X 1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Orc for the conservation of the orchid Paphiopedilum f  1. Karnataka  2. Sikkim	Question ID : 26433059363 Status : Not Answered Chosen Option :
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum for the Orchid Paphiopedilum	Question ID : 26433059363 Status : Not Answered Chosen Option :
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Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum f  1. Karnataka  2. Sikkim  3. Himachal Pradesh	Question ID : 26433059363 Status : Not Answered Chosen Option : Chid Conservation Reserve notified fairrieanum in the year 2008?
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum f  1. Karnataka  2. Sikkim  3. Himachal Pradesh	Question ID : 26433059363 Status : Not Answered Chosen Option : Chid Conservation Reserve notified fairrieanum in the year 2008?  Question ID : 26433055133
Ans Q.13	efforts of Dr. AC Nehren of YMCA Madras?  1. 1934  2. 1924  3. 1930  4. 1920  In which state was the Sling Dong Fairrieanum Ord for the conservation of the orchid Paphiopedilum f  1. Karnataka  2. Sikkim  3. Himachal Pradesh	Question ID : 26433059363 Status : Not Answered Chosen Option : Chid Conservation Reserve notified fairrieanum in the year 2008?



Q. 13	The Rongker festival is celebrated by the Karbi tribe of	<b>_</b>
Ans	√ 1. Assam	
	X 2. Ladakh	
	X 3. Himachal Pradesh	
	🗙 4. Rajasthan	
		Question ID : 26433064319 Status : Not Answered
		Chosen Option :
Q.20	In the decade of 2001-2011, which of the following state experie	enced a negative growth
	rate in population growth?	
Ans	X 1. Assam	
	2. Nagaland	
	X 3. Mizoram	
	X 4. Tripura	
		Oura-tion ID + 20/40300040
		Question ID : 26433089248 Status : Answered
		Chosen Option: 2
Q.21	Which is the world's largest PV Solar Park located in one of the	e Indian states?
Ans	★ 1. Dholera Solar Park	
	✓ 2. Bhadla Solar Park	
	X 3. Harshad Solar Park	
	X 4. Pavagada Solar Park	
		Question ID : 264330100072
		Status : Not Answered Chosen Option :
		Chosen Option :
Q.22	Which of the following is NOT a sign of under eating?	
Ans	1. Eating unusually large amounts of food with no apparent ch	ange in weight
	× 2. Social withdrawal	
	X 3. Hiding or discarding food  ✓	
	X 4. Denial of feelings of hunger	
		Question ID : 26433055782
		Status : Answered
		Chosen Option : 2
O 22	Beta-carotene is present in:	
Ans	X 1. potatoes	
	× 2. ginger	
	X 3. onions	
	✓ 4. carrots	
		Question ID : <b>26433054050</b>
		Status : Answered
		Chosen Option : 4
		· ·

Q.24	Which of the following statements is correct?	
Ans	★ 1. Minerals are least important for our body.	
	2. Calcium is the most abundant mineral in our body.	
	★ 3. Magnesium is not required at all for our body.	
	★ 4. Sodium and chloride are required in huge amounts for our body.	
		Question ID : 26433054036
		Status : <b>Answered</b> Chosen Option : <b>4</b>
		Onoscii Option : 4
Q.25	Who is considered as the 'linchpin of the Government'?	
Ans	★ 1. Chief Justice of the Supreme Court	
	X 2. Vice-President	
	X 3. President	
	✓ 4. Prime Minister	
		Question ID : 264330100087
		Status : <b>Not Answered</b> Chosen Option :
		cilicosii spitorii.
Q.26	Which Part of the Indian Constitution provides for Fundamental Rigi	nts?
Ans	X 1. Part IX	
	✓ 2. Part III	
	X 3. Part V	
	X 4. Part VII	
		Question ID : 26433086779
		Status : Answered
		Chosen Option : 2
Q.27	Which of the following district of Bangladesh does NOT come under	the Khulna
A	division?	
Ans	X 1. Satkhira	
	X 2. Meherpur	
	✓ 3. Coxsbazar	
	X 4. Jashore	
		Question ID : <b>264330100062</b>
		Status : Not Answered
		Chosen Option :
Q.28	Which article of Indian constitution is related with qualifications for Governor?	appointment as
Ans	X 1. 132	
	<b>★</b> 2. 169	
	✓ 3. 157	
	X 4. 143	
	V 4. 140	
		Question ID : <b>264330100089</b>
		Status : <b>Answered</b> Chosen Option : <b>3</b>

Q.29 In which of the following academies were the women candidates allowed to be inducted for permanent commission in September 2021, after the intervention of the Supreme Court of India? 1. National Defence Academy Ans X 2. Rashtriya Military School X 3. Indira Gandhi National Forest Academy X 4. Officers Training Academy Question ID: 26433082808 Status: Not Answered Chosen Option: --Q.30 National income is equivalent to \_ X 1. Gross National Product at factor cost X 2. Net National Product at market prices 3. Net National Product at factor cost X 4. Gross National Product at market prices Question ID: 26433064504 Status: Answered Chosen Option: 2 Q.31 In 2021, approximately what was the percentage of urban population in India? **X** 1. 33.4% **2**. 35.4% **X** 3. 32.4% **X** 4. 34.4% Question ID: 264330100066 Status: Not Answered Chosen Option: --Q.32 What per cent of the population resides in rural areas, according to the Census of India 2011? Ans 1. 68.8% X 2. 50.9% × 3. 64.5% × 4. 70.5% Question ID: 26433069788 Status: Not Answered Chosen Option: --Q.33 In which of the following years, did Mahatma Gandhi propose the Wardha Scheme of **Basic Education? 1**. 1937 Ans **X** 2. 1948 **X** 3. 1932 X 4. 1942 Question ID: 26433085260 Status: Answered Chosen Option: 4

#### Q.34 Which of the following is NOT an objective of diet therapy? X 1. Education and counselling of the patient regarding the need to adhere to the prescribed diet. 2. Use of unrefined grains for diet control programme. X 3. Promotion of recovery formulation of the diet to meet the needs of the patient taking into consideration her or his food habits X 4. Correction of nutritional deficiencies; if any. Question ID: 26433059456 Status: Answered Chosen Option: 2 Q.35 As per physicists and their major contributions/discoveries, Which of the following pair is INCORRECT? X 1. Louis Victor de Broglie – Wavenature of matter 2. John Bardeen – Theory of superconductivity X 3. Victor Francis Hess - Cosmic radiation 🥓 4. Paul Dirac – Liquid helium Question ID: 264330100016 Status: Answered Chosen Option: 4 Q.36 are plants that have seeds but no fruits. X 1. Pteridophytes Ans X 2. Mosses 3. Gymnosperms 4. Bryophytes Question ID: 26433064414 Status: Answered Chosen Option: 1 Q.37 Who won the 2<sup>nd</sup> LG Cup Ice Hockey Championship 2022 held at the Ice Hockey Rink at NDS Sports Complex in Leh? X 1. Jammu and Kashmir Blue Team Ans X 2. Rimo Club, Leh X 3. Indo Tibetan Border Police 4. Ladakh Scouts Regimental Centre Question ID: 26433055061 Status: Not Answered Chosen Option: --Q.38 Which year was designated by UNESCO as the International Year of the Periodic Table (IYPT) to mark the 150th anniversary of the Mendeleev Periodic Table? Ans **X** 1. 2017 **2**. 2019 **X** 3. 2020 **X** 4. 2018 Question ID: 264330100048 Status: Not Answered Chosen Option: --

ns	\chi 1. Michael Faraday	
	X 2. JJ Thomson	
	✓ 3. Robert Millikan	
	★ 4. Christiaan Huygens	
	7 4. Offistiaan Fluygens	
		Question ID : 26433064050
		Status : Answered
		Chosen Option : 2
—— ∩ 40	Ecological succession is defined as:	
Ans	1. process by which the mix of species and habitat in	n an area changes over time
	X 2. process by which the many species get extinct	Ç
	X 3. process by which geological changes take place	
	X 4. process of deforestation	
	4. process of deforestation	
		Question ID : 26433064162
		Status : Answered
		Chosen Option : 1
Q.41	The Bathukamma festival is primarily celebrated in the	e Indian state of
Ans	✓ 1. Telangana	
	X 2. Gujarat	
	X 3. Bihar	
	X 4. Assam	
	A. Assaill	
		0 11 12 22
		Question ID : 26433064338
		Status : Answered
Q.42	In January 2022, the Supreme Court allowed NEET coladmissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.	Status : <b>Answered</b> Chosen Option : <b>1</b>
Q.42 Ans	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  1. 25% 2. 27%	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  1. 25% 2. 27%	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%	Status : Answered Chosen Option : 1  unselling for PG and UG
	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040
Ans	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans Q.43	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which X 1. Narasimhan Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans Q.43	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which X 1. Narasimhan Committee  X 2. Chakravarty Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which 1. Narasimhan Committee  X 2. Chakravarty Committee  3. Malegam Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans Q.43	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which X 1. Narasimhan Committee  X 2. Chakravarty Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans Q.43	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which 1. Narasimhan Committee  X 2. Chakravarty Committee  3. Malegam Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :
Ans Q.43	admissions for 2021-2022 based on the existing Backward Classes (OBC) in the all-India quota.  X 1. 25%  2. 27%  X 3. 10%  X 4. 21%  For suggesting reforms in micro finance sector, which 1. Narasimhan Committee  X 2. Chakravarty Committee  3. Malegam Committee	Status : Answered Chosen Option : 1  unselling for PG and UG quota for Other  Question ID : 26433055040 Status : Not Answered Chosen Option :

Q.44 What is the name of the proposed largest sports enclave in the country, the ground breaking ceremony of which was performed by the President of India in February ✓ 1. Sardar Vallabhbhai Sports Enclave Ans 💢 2. Pandit Deen Dayal Upadhyay Sports Enclave X 3. Narendra Modi Sports Enclave 🗙 4. Atal Bihari Vajpayee Sports Enclave Question ID: 264330100008 Status: Not Answered Chosen Option: --Q.45 Kanaka Raju, a veteran practitioner of which of the following folk dances, was conferred the Padma Shri in 2021? Ans 🟋 1. Oggu Katha 2. Gussadi X 3. Tholu Bommalata X 4. Lambadi Question ID: 26433064264 Status: Not Answered Chosen Option: --Q.46 Consider the following: 1) Bank rate 2) Income tax rates 3) Repo rates 4) Reverse repo rate Which of these rates is/are decided by the Reserve Bank of India? Ans X 1. 1, 2, 3 and 4 X 2. Only 1 and 2 3. Only 1, 3 and 4 X 4. Only 1 Question ID: 264330100723 Status: Not Answered Chosen Option: --Q.47 Select the correct statement from the given options. ✓ 1. Milk is a good source of calcium, phosphorous and protein. X 2. Red meat is a good source of carbohydrate and fibre. X 3. Eggs are a good source of fibre and fat. X 4. Milk is a good source of phosphorous, iron and protein. Question ID: 26433064167 Status: Answered Chosen Option: 1 Q.48 The Arya Samaj was founded by Swami Dayanand Saraswati in: **1.** 1875 Ans **X** 2. 1867 **X** 3. 1888 **X** 4. 1880 Question ID: 26433064617 Status: Answered Chosen Option: 1

Q.49 In October 2021, which Union Territory gave a financial nod to the e-health card project, conceived as a repository to store an individual's entire medical history, which will be connected to a cloud-based health information management system? 1. Delhi Ans X 2. Puducherry X 3. Chandigarh X 4. Lakshadweep Question ID: 26433086871 Status: Not Answered Chosen Option: --Q.50 Where is the Royal Ascot Racecourse situated? X 1. Belgium X 2. The US 3. England X 4. France Question ID: 264330100748 Status: Not Answered Chosen Option: --Section: Part B General Engineering Electrical Find the voltage drop across a  $13\Omega$  resistor. 40V Ans X 2. 40V X 3. 14V X 4. 10V Question ID: 26433096426 Status: Answered Chosen Option: 1 Which of the following statements is true about phasor representation of sinusoidal X 1. Represent a sinusoidal quantity by a line of definite length rotating in the counter-Ans clockwise direction with different angular velocity. X 2. Represent a sinusoidal quantity by a line of definite length rotating in the clockwise direction with different angular velocity. 3. Represent a sinusoidal quantity by a line of definite length rotating in the counterclockwise direction with the same angular velocity as that of sinusoidal quantity. X 4. Represent a sinusoidal quantity by a line of definite length rotating in the clockwise direction with the same angular velocity as that of sinusoidal quantity.

Q.3	For high load factor for the	ne given maximum demand	, the number of generated units is
α.υ	i or riigii loud lactor for ti	ic giveii illaxillialli acillalla	, the number of generated units is

Ans

s	1	1.	r
	~		

\_\_\_\_\_

X 3. infinite

X 4. equal

Question ID : 26433096596 Status : Answered Chosen Option : 2

Q.4 A capacitor of capacitance C farad is connected in parallel with a resistance of R  $\Omega$ . An AC voltage of V volt supplied across the circuit. If the current flowing through resistance is equal to I<sub>R</sub> and current flowing through the capacitors is equal to I<sub>C</sub>, What is the value of the total current flowing through the circuit?

Ans

$$\times$$
 1.  $I = V(\frac{1}{R} + \frac{\omega}{C} < 90^{\circ})$ 

$$\times$$
 2.  $I = V\left(\frac{1}{C} + \omega R < 90^{0}\right)$ 

$$\times$$
 3.  $I = V\left(\frac{1}{R} + \frac{C}{\omega} < 90^{\circ}\right)$ 

$$\label{eq:local_equation} \checkmark \text{4. } I = V \Big(\frac{1}{R} + \omega C < 90^0\Big)$$

Question ID : 26433096113 Status : Answered

Chosen Option: 4

Q.5 The rating of a transformer is in kVA because \_\_\_\_\_

Δne

- X 1. only the iron losses depend on the current
- 2. the total losses depend on the voltage and current
- X 3. only the copper losses depend on the voltage
- X 4. the total losses depend only on the current

Question ID : 26433096698 Status : Answered Chosen Option : 2

Q.6 The purpose of the auxiliary motor in starting of synchronous motor is \_\_\_\_\_

Ans X 1. to increase the efficiency

X 2. to reduce the losses

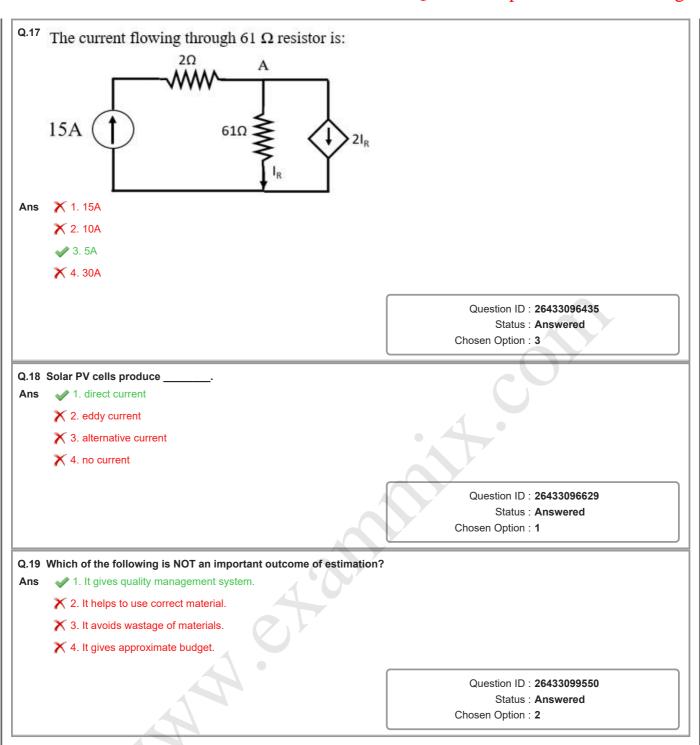
X 4. to give field excitation to the motor

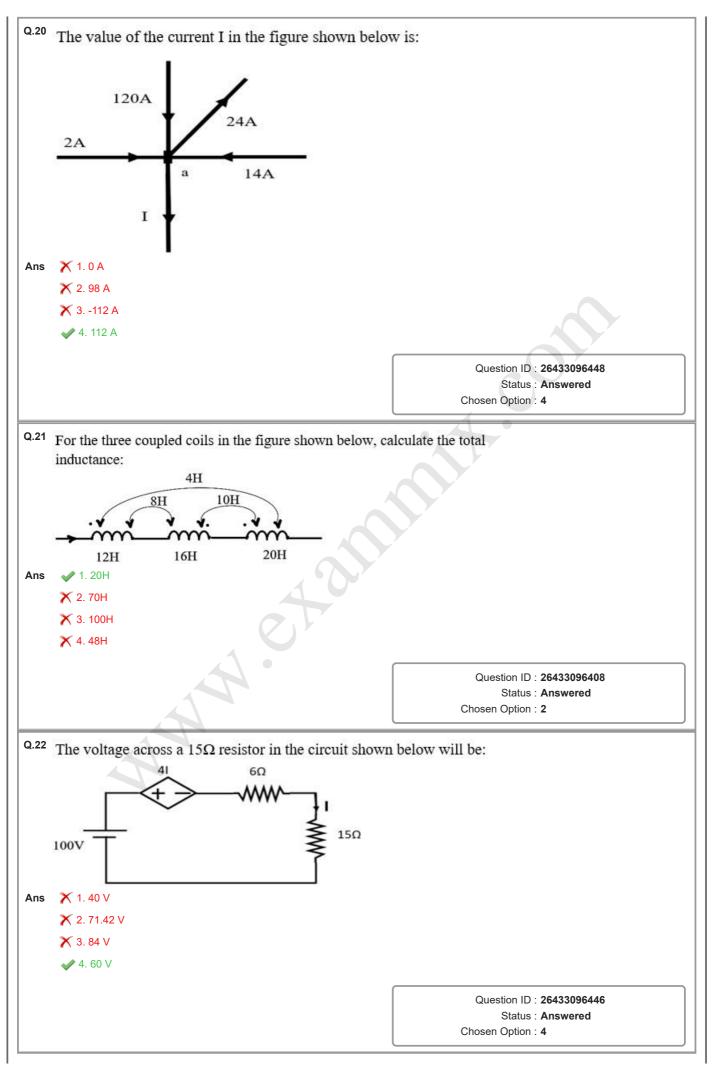
Question ID : 26433096563 Status : Answered

Chosen Option : 3

S	X 1. capacitive	
	✓ 2. inductive	
	X 3. repulsive	
	X 4. resistive	
	, massacro	
		Question ID : 26433099592
		Status : Answered
		Chosen Option : 2
Q.8	The speed of the aluminum disc in an energy meter is controlled b	у .
Ans	✓ 1. braking magnet	·
	X 2. series magnet	
	X 3. shunt magnet	
	X 4. shunt and series magnets	
	·	
		Question ID : 26433096907
		Status: Answered
		Chosen Option : 1
Q.9	Which of the following is NOT a disadvantage of the direct laying n	nethod?
Ans	★ 1. The maintenance cost is very high.	
	2. Heat can be dissipated easily.	
	X 3. Localization of the fault is difficult.	
	X 4. It cannot be used in congested areas.	
		Question ID : 26433099260
		Status : Answered
		Chosen Option : 2
Q.10	The signal frequency in a CRO is:	
Ans	★ 1. more than 1 MHz	
	★ 2. less than 1 MHz	
	✓ 3. more than 10 MHz	
	X 4. more than 10 Hz	
		Question ID : 26433096499
		Status : Not Answered
		Chosen Option :
Q.11	The salient pole type construction is suitable for running low-spee	d prime-movers.
	Which of the following suits the best explanation for the above sta	tement?
Ans	X 1. Such machines should have relatively small number of poles.	
	2. Such machines should have comparatively larger rotor diamete	r.
	X 3. Such machines should have relatively smaller rotor diameter.  □ 1. ■ 1. ■ 1. ■ 1. ■ 1. ■ 1. ■ 1. ■ 1.	
	X 4. The air gap flux should not be affected by the rotor angle position	n.
		Outselies ID : 364220005774
		Question ID : 26433096554 Status : Answered
		Chosen Option : 2

Q.12	Which of the following best describes a LASER light?	
Ans	★ 1. Dichromatic and non-coherent	
	2. Monochromatic and coherent	
	★ 3. Dichromatic and coherent	
	X 4. Monochromatic and non-coherent	
		Question ID : 26433098121 Status : Answered
		Chosen Option : 2
		·
Q.13	A Francis turbine is used for	
Ans	✓ 1. low to medium heads	
	★ 2. high to medium heads	
	★ 3. high to high heads	
	X 4. low to low heads	
		Question ID : 26433096620
		Status : <b>Answered</b> Chosen Option : <b>1</b>
	The torque developed by a motor while running at 1500 rpm is 206 N	
Ans	torque available is 200 N-m. The iron and mechanical losses, in watt $\checkmark$ 1. $300\pi$	s, are:
Alla		
	Χ 2. 150π	
	Χ 3. 500π	
	Χ 4. 250π	
		Question ID : 26433098222
		Status : Not Answered
		Chosen Option :
0.45		
Q.15 Ans	Which of the following statements is FALSE about LED lamps?	
Allo	<ul><li>1. An LED is a semiconductor device.</li><li>2. An LED is doped with silicon and germanium like all semiconductor</li></ul>	tor devises
		or devices.
	X 3. An LED works in forward biased condition only.	
	X 4. The cathode region of an LED would have a slight bent in the struwith the anode portion.	icture in comparison
		Question ID : 26433098122
		Status : <b>Answered</b> Chosen Option : <b>4</b>
		Choosii Opacii. 1
	The pressure coil of a 3-phase 3 element energy meter rated at 415V	, 50Hz, has a
	capacity of	
Ans	X 1. 240V	
	X 2. 200V	
	<b>→</b> 3. 415V	
	<b>★</b> 4. 440V	
		Ougoties ID - 99499999495
		Question ID : 26433096495 Status : Not Answered
		Chosen Option :





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Q.23 TUF for a half-wave rectifier and centre tapped full wave rectifier is \_\_\_\_\_\_, respectively.

Ans

X 1. 57.2%; 81%

× 2. 40.6%; 81.2%

× 4. 28.6%; 81%

Question ID : 26433096059 Status : Not Answered

Chosen Option : --

Q.24 The reciprocal of reluctance is called \_\_\_\_\_

Ans

✓ 1. permeance

X 2. susceptance

X 3. resistance

X 4. conductance

Question ID : 264330100899 Status : Answered

Chosen Option: 1

Q.25 A two terminal network is connected to a resistive load whose resistance is equal to two times the Norton's resistance of the network. What will be the load current if Norton's current is I<sub>N</sub>?

Ans

$$\times$$
 2.  $\frac{2I_N}{3}$ 

$$\checkmark$$
 3.  $\frac{I_N}{3}$ 

Question ID: 26433096467

Status: Answered

Chosen Option: 3

Q.26 The formula for rms value of sinusoidal signal in terms of peak to peak voltage,  $V_{p-p}$  is

An

$$\times$$
 1.  $\frac{V_{p-p}}{2}$ 

$$\times$$
 2.  $\frac{V_{p-p}}{\sqrt{2}}$ 

$$\checkmark$$
 3.  $\frac{V_{p-p}}{2\sqrt{2}}$ 

$$\times$$
 4.  $\frac{V_{p-p}}{\pi\sqrt{2}}$ 

Question ID : 26433096911

Status : Answered

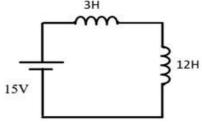
Chosen Option : 2

	A STATE OF THE STA		
Ans	★ 1. Its current sensitivity is high.		
	2. It can be used at high frequenci	es.	
	3. It can be used under severe over	er-load conditions.	
	X 4. It has linear scale.		
		Question ID : 26433096504	
		Status : Answered	
		Chosen Option : 2	
28	If the contractor fails to submit with bill the document of handing over charge on inventory form duly signed by the user department concerned, then the amount deducted will generally be		
ns	<b>X</b> 1. 10%		
	<b>√</b> 2. <b>5%</b>		
	× 3. 15%		
	<b>×</b> 4. 20%		
		Question ID : 26433099544	
		Status : Not Answered	
		Chosen Option :	
	select the most appropriate option.  1. The constructional framework is	bout cylindrical type synchronous generators and suitable for hydraulic, steam and gas turbines.	
	<ul> <li>select the most appropriate option.</li> <li>1. The constructional framework is</li> <li>2. The number of poles under such suitable for gas turbines.</li> <li>3. The number of poles is relatived.</li> <li>4. The number of poles under such such such such such such such such</li></ul>	bout cylindrical type synchronous generators and	
	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines.	
	<ul> <li>select the most appropriate option.</li> <li>1. The constructional framework is</li> <li>2. The number of poles under such suitable for gas turbines.</li> <li>3. The number of poles is relatived.</li> <li>4. The number of poles under such such such such such such such such</li></ul>	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553	
	<ul> <li>select the most appropriate option.</li> <li>1. The constructional framework is</li> <li>2. The number of poles under such suitable for gas turbines.</li> <li>3. The number of poles is relatived.</li> <li>4. The number of poles under such such such such such such such such</li></ul>	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered	
	<ul> <li>select the most appropriate option.</li> <li>1. The constructional framework is</li> <li>2. The number of poles under such suitable for gas turbines.</li> <li>3. The number of poles is relatived.</li> <li>4. The number of poles under such such such such such such such such</li></ul>	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553	
ins	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered	
.30	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
Ans	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
Ans 0.30	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°  2. 360°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
.30	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°  2. 360°  3. 270°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
).30	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°  2. 360°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
Ans Ω.30	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°  2. 360°  3. 270°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3	
Ans	select the most appropriate option.  1. The constructional framework is  2. The number of poles under such suitable for gas turbines.  3. The number of poles is relatived.  4. The number of poles under such for hydraulic and oil turbines only.  In a single phase Induction Motor, the electrically apart.  1. 180°  2. 360°  3. 270°	bout cylindrical type synchronous generators and s suitable for hydraulic, steam and gas turbines. h a constructional framework is higher and thus ly less and thus suitable for steam turbines. h a constructional framework is less and thus suitable  Question ID: 26433096553 Status: Answered Chosen Option: 3  e auxiliary and running windings are spaced	

Q.31	Which of the following is used with a photometer for the converse electric current?	sion of light into		
Ans	X 1. Resistor			
	✓ 2. Photo diode			
	X 3. Capacitor			
	X 4. Inductor			
		O ID		
		Question ID : 26433098217 Status : Answered		
		Chosen Option: 2		
Q.32	A resistor of 8 $\Omega$ and a capacitor of 178 $\mu$ F are connected in series to a 250V, 50 Hz supply.Net impedance of the circuit is given by 19.6 $\Omega$ . What is the value of reactive power?			
Ans	<b>X</b> 1. 3196.4 VAR			
	<b>★</b> 2. 2968.1 VAR			
	<b>✓</b> 3. 2912.5 VAR			
	<b>X</b> 4. 2511 VAR			
		Question ID : 26433095562 Status : Answered		
		Chosen Option: 3		
	The red light emitted by a ruby laser is of wavelength	<u> </u>		
Ans	✓ 1. 694.3 nm			
	X 2. 456.77 nm			
	X 3. 775.1 nm			
	★ 4. 566.93 nm			
		Question ID : 26433098201		
		Status : Not Answered		
		Chosen Option :		
 ኒ.34	If a source is delivering maximum power to a load, the power tra	insfer efficiency of the		
Ans	circuit is always:  X 1. 40%			
7.110				
	<b>★</b> 2. 100%			
	<b>✓</b> 3. 50%			
	<b>★</b> 4. 99%			
		Outstier ID - 90492000403		
		Question ID : 26433096463		
		Status : Answered		
		Status : <b>Answered</b> Chosen Option : <b>3</b>		

Q.35 Which of the following statements about armature reaction of an alternator with unity power factor is NOT true? Ans The distribution of stator currents and fluxes of an alternator with zero phase displacement. The distribution of stator currents and fluxes of an alternator with 30° phase displacement. The maximum of the fundamental wave of the field will be opposite to the pole centres. The armature reaction MMF is directed perpendicular to the main field MMF. Question ID: 26433096661 Status: Not Answered Chosen Option: --Q.36 Grading of cable is done in order to 1. reduce the quality of insulation 2. achieve the no-uniform stress 3. achieve the uniform stress 4. increase the quantity of insulation Question ID: 26433099255 Status: Answered Chosen Option: 3 Which of the following methods of lighting calculation can be used for rough calculations and checking purposes? X 1. Lumen method Ans X 2. Point to point method 3. Watt per sq m method X 4. Light flux illuminance method Question ID: 26433098127 Status: Answered Chosen Option: 3 Q.38 Which of the following statements is NOT correct about different type of waveforms? X 1. Bidirectional waveforms have both positive and negative signs. X 2. The current or voltage for unidirectional waveforms or signals remains the same, although varying. It never crosses the zero line. 3. The periodic time for a square wave is still the time for a complete cycle. 4. Non periodic waveforms are those that vary and repeat the waveform. Question ID: 26433095584 Status: Answered Chosen Option: 4

Q.39 The dual network of the figure shown below consists of:



Ans X

a voltage source of 15V, a capacitor of  $\frac{1}{3}$  F and a capacitor of  $\frac{1}{12}$  F

**2** 

a current source of 15A, a capacitor of 3F and a capacitor of 12F

**X** 3.

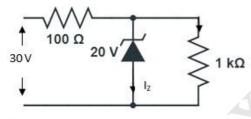
a voltage source of 15V, an inductor of  $\frac{1}{3}$  H and a capacitor of  $\frac{1}{12}$  F

**X** 4.

a current source of 15A, a capacitor of  $\frac{1}{3}$  F and a capacitor of  $\frac{1}{12}$  F

Question ID : 26433096461 Status : Answered Chosen Option : 1

Q.40 The value of I<sub>Z</sub> shown in the given circuit is \_\_\_\_\_



Ans

X 1. 0.02 A

2. 0.08 A

X 3. 0.08 mA

X 4. 0.02 mA

Question ID : 26433096062 Status : Answered

Chosen Option: 2

Q.41 A single-phase transformer is fed with a rated supply and operates at no load. If the core of the transformer is air-core, then the waveform of steady state magnetising current drawn from the supply would be a \_\_\_\_\_\_.

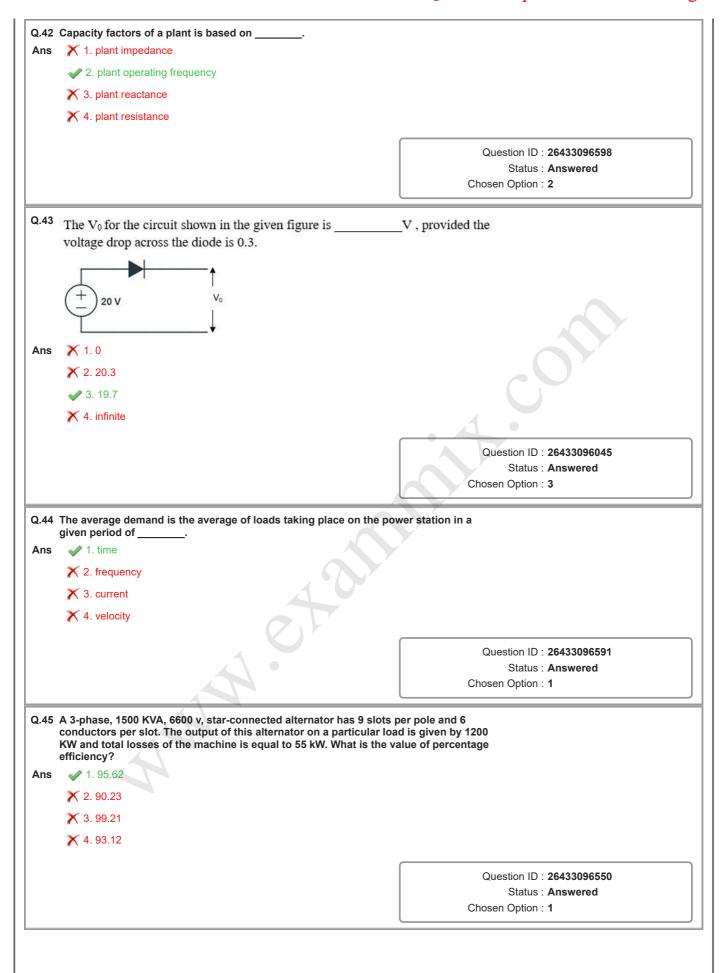
Ans X 1. peaky wave with strong third harmonic component

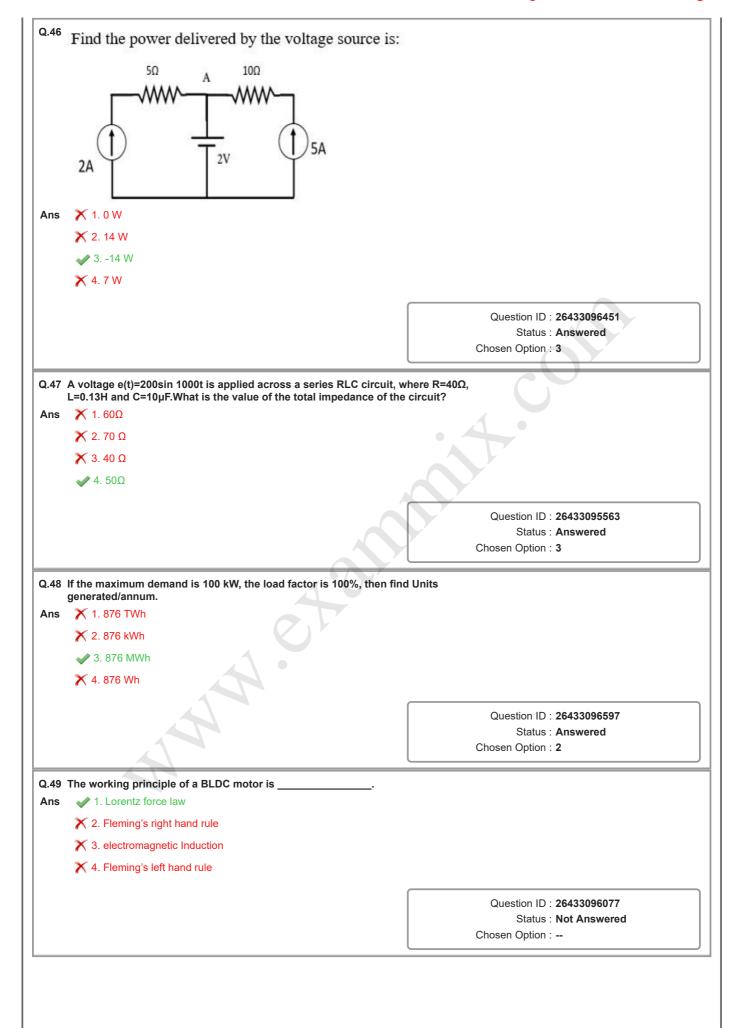
X 2. flat topped wave

X 3. rectangular wave

4. pure sinusoidal wave

Question ID: 26433096096 Status: Answered Chosen Option: 1





	In a comparative statement while compiling information on the tender evaluation sheet/format, which of the following is NOT of a special attention?		
Ans	✓ 1. Name of the supplier		
	★ 2. Packing and forwarding charges		
	X 3. Terms of delivery		
	X 4. Assurance to replace defective supplies		
		Question ID : 26433099469	
		Status : Not Answered	
		Chosen Option :	
2.51	An 8 Kw, 4-Pole, 220 V, 50 Hz reluctance motor has a torque a operating under rated load conditions. Calculate load torque.	angle of 30° when	
Ans	X 1. TL= 61 N-m		
	X 2. TL= 41 N-m		
	<b>X</b> 3. TL= 71 N-m		
	✓ 4. TL= 51 N-m		
		Question ID : 26433098251	
		Status : Not Answered	
		Chosen Option :	
.52	Which law is used to determine the economic size of a conductor?	•	
Ans	★ 1. Gauss's law		
	X 2. Ampere's law		
	X 4. Newton's law		
		Question ID : 26433099246 Status : Answered	
		Chosen Option : 1	
	Over excited synchronous motors are used to:		
Ans	1. generate reactive power		
	7 2. operate diagnore		
	X 3. run reciprocating pumps		
	X 4. run lathe machines		
		Question ID : 26433096561	
		Status : Answered	
		Chosen Option : 1	
.54	According to BIS, the panel board and meter board are to be kept at	a height of	
Ans	<b>★</b> 1. 2.5 m		
	✓ 2. 1.5 m		
	<b>★</b> 3. 1.2 m		
	★ 4. 1.8 m		
	A 4. 1.0 III		

Visit - www.exammix.com & Download All Shift CBT Question Papers in Hindi and English Q.55 Stringing chart represents a graph of \_ 1. sag vs supply frequency 2. sag and tension vs temperature X 3. sag vs conductor size X 4. tension vs sag Question ID: 26433099248 Status: Answered Chosen Option: 2 Q.56 Which of the following motors is used in the application of biomedical instruments used for artificial heart pumping? 1. Brushless DC motor Ans X 2. DC shunt motor 3. Alternator X 4. Dynamotor Question ID: 26433096075 Status: Answered Chosen Option: 1 Which one of the four options is true about the circuit shown below: 10A 200V 1. reciprocity theorem can be applied X 2. superposition theorem can be applied because it contains current source 💢 3. superposition theorem can be applied 4. superposition theorem cannot be applied because it contains diode Question ID: 26433096574 Status: Answered Chosen Option: 4 Q.58 Two electric lamps have filaments of the same metal having the same thickness. If one of them gives 100 watt and other gives 500 watt across the same supply, then: X 1. 500 watt lamp filament has a longer length 2. 100 watt lamp filament has longer a length

X 3. 100 watt lamp filament has a shorter length

X 4. 100 watt and 500 watt lamp filaments have the same length

Question ID: 26433096392 Status: Answered

Chosen Option: 2

S	★ 1. have no relation with		
	X 2. more than		
	★ 3. equal to		
	✓ 4. less than		
		Outseties ID - 0040000000	
		Question ID : 26433096603 Status : Answered	
		Chosen Option : 4	
.60	If there is no same voltage ratio while co transformers, then it produces	nducting parallel operation of three-phase	
lns	X 1. magnetic hysteresis	_	
	✗ 2. leakage flux and hysteresis		
	X 3. leakage flux		
	✓ 4. circulating current		
		Question ID : 26433096109	
		Status : Answered	
		Chosen Option : 4	
Q.61	1 If the hydroelectric power plant rating is 200 MVA and it currently supplies only 120 MVA, then what is the value of the hot reserve?		
Ans	<b>★</b> 1. 320 MVA		
	✓ 2. 80 MVA		
	<b>★</b> 3. 200 MVA		
	<ul><li>★ 3. 200 MVA</li><li>★ 4. 120 MVA</li></ul>		
		Question ID : 26433096605	
		Status : Answered	
	<b>★</b> 4. 120 MVA	Status : Answered Chosen Option : 2	
	Consider the following statements about and select the most appropriate option.  a. Both open and short circuit data are e b. The largest value of synchronous imp current is considered.  c. In a practical machine, the value of syd. The voltage regulation calculated by t value of regulation.	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit	
	Consider the following statements about and select the most appropriate option.  a. Both open and short circuit data are e b. The largest value of synchronous impourrent is considered.  c. In a practical machine, the value of syd. The voltage regulation calculated by the value of regulation.  1. Both a and d are true	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit nchronous impedance is a constant.	
	Consider the following statements about and select the most appropriate option.  a. Both open and short circuit data are e b. The largest value of synchronous imp current is considered.  c. In a practical machine, the value of sy d. The voltage regulation calculated by t value of regulation.  1. Both a and d are true  2. Both b and d are true	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit nchronous impedance is a constant.	
	Consider the following statements about and select the most appropriate option. a. Both open and short circuit data are e b. The largest value of synchronous impocurrent is considered. c. In a practical machine, the value of syd. The voltage regulation calculated by the value of regulation.  1. Both a and d are true  2. Both b and d are true  3. All a, b, c, d are true	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit nchronous impedance is a constant.	
	Consider the following statements about and select the most appropriate option.  a. Both open and short circuit data are e b. The largest value of synchronous imp current is considered.  c. In a practical machine, the value of sy d. The voltage regulation calculated by t value of regulation.  1. Both a and d are true  2. Both b and d are true	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit nchronous impedance is a constant.	
	Consider the following statements about and select the most appropriate option. a. Both open and short circuit data are e b. The largest value of synchronous impocurrent is considered. c. In a practical machine, the value of syd. The voltage regulation calculated by the value of regulation.  1. Both a and d are true  2. Both b and d are true  3. All a, b, c, d are true	Status : Answered Chosen Option : 2  t EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit nchronous impedance is a constant.	
Q.62 Ans	Consider the following statements about and select the most appropriate option. a. Both open and short circuit data are e b. The largest value of synchronous impocurrent is considered. c. In a practical machine, the value of syd. The voltage regulation calculated by the value of regulation.  1. Both a and d are true  2. Both b and d are true  3. All a, b, c, d are true	Status: Answered Chosen Option: 2  It EMF method of finding the voltage regulation ssential for applying this method. edance obtained from the largest short circuit inchronous impedance is a constant. The EMF method is much higher than the actual	

Q.63 An alternating voltage v= 200 sin 100t. Find the amplitude and frequency.

Ans

× 1. V<sub>avg</sub>=130 V,f=30 Hz

 $\sim$  2.  $V_{avg}$ =127.4 V, f=15.9 Hz

 $\times$  3.  $V_{avg} = 124 \text{ V, } f = 30 \text{ Hz}$ 

× 4. V<sub>avg</sub>=123 V,f=25.6 Hz

Question ID : 26433095581 Status : Answered

Chosen Option: 2

Q.64 Primary distribution is carried out by \_

Ans X 1. single phase three wire system

X 2. single phase two wire system

X 3. two phase three wire system

4. three phase three wire system

Question ID : 26433099232

Status: Answered

Chosen Option: 4

Q.65 The annual load duration curve is a straight line from 20 MW to 6 MW. Find the load factor.

Ans

× 1. 50%

× 2. 75%

√ 3. 65%

× 4. 85%

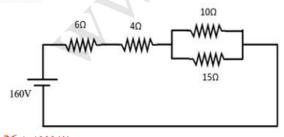
Question ID : 26433096607

Status : Answered

Chosen Option : 1

Q.66 If the supply voltage is 160 V, the value of power dissipated in the  $10\Omega$  resistor

will be:



Ans

🗙 1. 1000 W

X 2. 100 W

X 3.6 W

√ 4. 360 W

Question ID : 26433096425

Status: Answered

Chosen Option: 3

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\no	<ul><li>armature in an alternator?</li><li>1. Stator winding is subjected to centrifugal forces.</li></ul>	
Ans		
	X 2. Commutator is not present.	
	X 3. Sparking at brushes is completely avoided.  ■ The state of t	
	★ 4. Perfect mechanical balance is obtained on stator winding.	
		Question ID : 26433096556
		Status : Answered
		Chosen Option : 2
2.68	Which of the following losses increase due to improper lubrication'	?
Ans	★ 1. Copper losses	
	★ 2. Windage losses	
	X 3. Iron losses	
	✓ 4. Friction losses	
		Question ID : 26433096081
		Status : Answered
		Chosen Option : 4
Ans	<ul><li>1. luminous flux</li><li>2. luminosity</li><li>3. luminous intensity</li></ul>	
	X 4 luminance	
	★ 4. luminance	
	4. luminance	Question ID : 26433099558
	4. luminance	Question ID : 26433099558 Status : Answered Chosen Option : 3
Q.70	4. luminance  Hysteresis loss depends on which of the following factors?	Status : Answered
		Status : Answered
	Hysteresis loss depends on which of the following factors?	Status : Answered
	Hysteresis loss depends on which of the following factors?  1. Square of the Steinmetz hysteresis coefficient	Status : Answered
	Hysteresis loss depends on which of the following factors?  1. Square of the Steinmetz hysteresis coefficient  2. Frequency of magnetic reversals	Status : Answered
	Hysteresis loss depends on which of the following factors?  1. Square of the Steinmetz hysteresis coefficient  2. Frequency of magnetic reversals  3. Square of the thickness of the material	Status : Answered
	Hysteresis loss depends on which of the following factors?  1. Square of the Steinmetz hysteresis coefficient  2. Frequency of magnetic reversals  3. Square of the thickness of the material	Status : Answered Chosen Option : 3  Question ID : 26433096876
Q.70 Ans	Hysteresis loss depends on which of the following factors?  1. Square of the Steinmetz hysteresis coefficient  2. Frequency of magnetic reversals  3. Square of the thickness of the material	Status : Answered Chosen Option : 3

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Q.71 A coil of inductance L henry is connected in parallel with an R  $\Omega$  resistor. The current flowing through resistance and inductance is I<sub>R</sub> and I<sub>L</sub>, respectively. What is the value of the current drawn from the supply?

Ans

$$\times$$
 1.  $\sqrt{{\rm I_R}^2-{\rm I_L}^2}$ 

$$\times$$
 3.  $I_R^2 - I_L^2$ 

$$\times$$
 4.  $I_R^2 + I_L^2$ 

Question ID : 26433096114 Status : Answered

Chosen Option: 2

Q.72 If the distance between two parallel current carrying conductors is tripled, then the magnitude of force between them will become \_\_\_\_.

Ans

1. one-third

X 2. three times

X 3. six times

X 4. one-sixth

Question ID : 26433096870

Status : Answered

Chosen Option: 1

Q.73 In dynamically induced EMF, the stationary part and rotating part are \_\_\_\_\_\_ respectively.

Anc

X 1. commutator and brush

2. magnetic field and conductor

X 3. conductor and magnetic field

X 4. brush and commutator

Question ID : 26433096865

Status : Answered

Chosen Option: 2

Q.74 According to Lenz's law, which of the following are the parameters of cause and effect, respectively?

Ans

X 1. Motion of the conductor and magnetic field

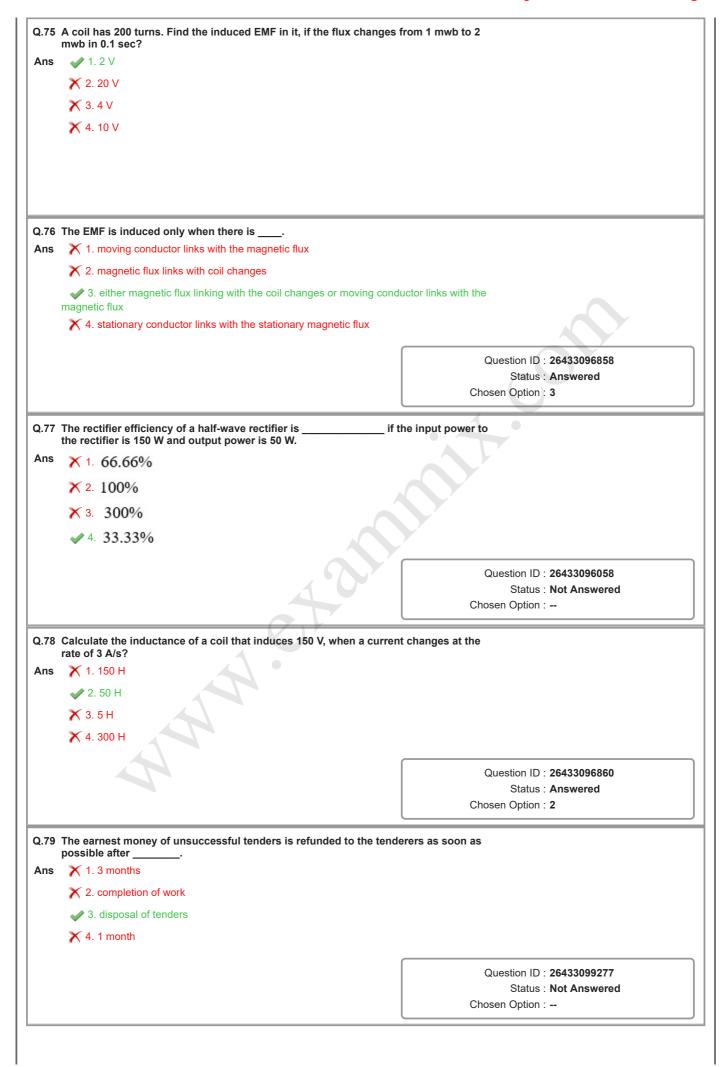
X 2. Magnetic field and motion of the conductor

X 3. Induced EMF and change of flux

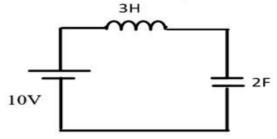
Question ID: 26433096855

Status : Answered

Chosen Option: 4



Q.80 The dual network of the figure shown below consists of:



Ans X 1.

a voltage source of 10V, an inductor of  $\frac{1}{2}$  H and a capacitor of  $\frac{1}{3}$  F

**v** 2

a current source of 10A, an inductor of 2H and a capacitor of 3 F

**X** 3

a current source of 10A, an inductor of  $\frac{1}{2}$  H and a capacitor of  $\frac{1}{3}$  F

**X** 4

a current source of  $\frac{1}{10}$ A, an inductor of 2 H and a capacitor of 3 F

Question ID : 26433096460 Status : Not Answered

Chosen Option : --

- Q.81 Which of the following statements is/are true regarding AC distribution system and DC distribution system?
  - a) In DC distribution system, the voltage drop is due to resistance only.
  - b) In AC distribution system, the voltage drop is due to resistance only
  - c) In AC distribution system, the effect of inductance is always neglected.

X 2. (a), (b) and (c)

X 3. Only (a) and (b)

X 4. Only (a) and (c)

Question ID: 26433099239

Status : Answered

Chosen Option: 1

Q.82 Along the line of straight current carrying conductor, the magnetic field at any point is

Ans X 1. infinite

2. 2010

X 3. maximum

X 4. minimum

Question ID : 26433096853

Status : Answered

Chosen Option : 2

.83	Which of the following statements is correct about the phase seque phase supply?	ence of a three-	
Ans	<ul><li>1. In phase sequence ABC, phase A lags phase B by an angle of 30°.</li><li>2. In phase sequence ABC, phase A lags phase B by an angle of 120°.</li></ul>		
	X 3. In phase sequence ABC, phase A lags phase B by an angle of 6	50°.	
	4. It is the order in which the voltages in the individual phase attain	ns their peak value.	
		Question ID : 26433095574 Status : Answered	
		Chosen Option : 4	
 Q.84	For the impedance Z=3+j4,what is the value of admittance?		
Ans	✓ 1. Y=0.12-j0.16		
	<b>X</b> 2. Y=0.12+j0.16		
	<b>X</b> 3. Y=0		
	<b>★</b> 4. Y=3+j4		
		Question ID : 26433095555	
		Status : Answered	
		Chosen Option : 1	
Q.85	The power rating of an electric kettle is designed for	1	
Ans	✓ 1. 2 to 3 kW		
	X 2. 4 to 5 kW		
	<b>★</b> 3. 3 to 4 kW		
	<b>X</b> 4. 1 to 2 kW		
		Question ID : 26433098191	
		Status : <b>Not Answered</b> Chosen Option :	
Q.86	The constant load current for a 230 V single phase energy metre is factor. If the meter disc makes 2300 revolutions for 2 hours the met		
Ans	1. 0.25 revolutions / kWh		
Alla	2. 250 revolutions / kWh		
	X 3. 0.30 revolutions / kWh		
	X 4. 270 revolutions / kWh		
		Question ID : 26433096493	
		Status : Answered	
		Chosen Option : 2	
0.07	Comparative statement is an important document to evaluate		
W.87	✓ 1. offers received against an enquiry	<del></del>	
Ans	★ 2. imprest purchase system		
	<ul><li>★ 2. imprest purchase system</li><li>★ 3. limited tendering</li></ul>		
	★ 2. imprest purchase system		
	<ul><li>★ 2. imprest purchase system</li><li>★ 3. limited tendering</li></ul>	Question ID : <b>26433099273</b>	
	<ul><li>★ 2. imprest purchase system</li><li>★ 3. limited tendering</li></ul>	Question ID : 26433099273 Status : Not Answered Chosen Option :	

	Superposition theorem is applicable for the calculation of:	
Ans	★ 1. both voltage and power	
	2. voltage and current but not power	
	X 3. both current and power	
	★ 4. voltage, current and power	
		0 " 15 0010000
		Question ID : 26433096483 Status : Answered
		Chosen Option: 4
	The power factor is high in which of the following tests in a transform	ner?
Ans	X 1. OC test only	
	X 2. Both OC and SC tests	
	3. SC test only	
	X 4. Sumpner's test	
		Oversitive ID . 004000000
		Question ID : 26433096697 Status : Answered
		Chosen Option: 1
	Which of the following statements is true about a parallel RLC circuit	?
Ans	X 1. Capacitive susceptance will be zero.	
	X 2. Inductive susceptance will be zero.	
	3. Inductive susceptance will be negative value.	
	X 4. Capacitive susceptance will be negative value.	
		Question ID : 26433095549
		Status : Not Answered
		Chosen Option :
	A short transmission line has length	
Ans	X 1. more than 400 km	
	X 2. from 80 km to 250 km	
	X 3. from 250 km to 400 km	
	✓ 4. up to 80 km	
		Question ID : 26433099227
		Status : Answered
		Chosen Option: 2
	Creep adjustments in single-phase energy metres are done by	<b></b> ·
Ans	X 1. exciting the pressure coil	
	X 2. adjusting the turns ratio	
	3. providing two holes diametrically opposite in the rotating disc	
	★ 4. exciting the current coil	
	ſ	Outside ID 0040000407
		Question ID : 26433098185 Status : Answered
		Chosen Option : 3

Q.93	Transistor when working in the saturation region acts asregion acts as	and in the cut off	
Ans	1. open switch; closed switch		
	X 2. amplifier; open switch		
	✓ 3. closed switch; open switch		
	X 4. closed switch; amplifier		
		Question ID : 26433096692	
		Status : <b>Answered</b> Chosen Option : <b>2</b>	
		Onoscii Option . 2	
Q.94	In the diode V-I characteristics, the resistance of the circuit is is drawn between the voltages 100V to 200V and the corresponding 20A.	if a slope g current is 5A and	
Ans			
	🗙 2. 10 Ω		
	× 3. 0.15 Ω		
	<b>✓</b> 4. 6.66 Ω		
		Question ID : 26433096047 Status : Answered	
		Chosen Option : 4	
	Which of the following statements is NOT correct about a sine way	e?	
Ans	<ul><li>1. Time period is the number of cycles per seconds.</li><li>2. Frequency is the reciprocal of time period.</li></ul>		
	<ul><li>X 3. Peak voltage is another name for amplitude.</li></ul>		
	★ 4. RMS value is 0.7 times the peak value.		
		Question ID : 26433098302	
		Status : Answered	
		Chosen Option : 1	
Q.96	Tenders are ordinarily invited on tender forms prescribed for the pu		
Ans	alteration is to be made, it should be done after taking prior sanction 1. purchase assistant	on of the	
Alis	× 2. local agency		
	X 3. contractor		
	✓ 4. competent authority		
	4. Competent authority		
		Question ID : 26433099275	
		Status : Not Answered	
		Chosen Option :	
Q.97	The centre-tapped full wave rectifier's efficiency is		
Ans	× 1. 45.3%		
	× 2. 50%		
	× 3. 40.6%		
	√ 4. 81.2%		
	₩ ·· 01.270		
		Question ID : 26433096500	
		Status : Answered	
		Chosen Option : 4	

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