

SSC JE EE 10 Dec 2020 Paper







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Junior Engineer Civil Mechanical Electrical and Quantity Surveying and Contract Examination 2019

Roll Number	
Candidate Name	
Venue Name	
Exam Date	10/12/2020
Exam Time	3:00 PM - 5:00 PM
Subject	Junior Engineer 2019 Electrical

Section: General Intelligence and Reasoning

Q.1 In a certain code language, STUDENT is written as TVVFFPU. How will STEERING be written in the same code language?

Δns

√ 1. TVFGSKOI

X 2. TUFFSJOH

X 3. TUFGSKOH

X 4. TVGFSKPH

Question ID: 8161618131 Status: Answered

Chosen Option : 1

Q.2 Identify the option that arranges the following units in a logical and meaningful sequence.

- 1. Centi
- 2. Deci
- 3. Micro
- 4. Deca
- 5. Mili

Ans

- X 1. 3, 5, 1, 4, 2
- **√** 2. 3, 5, 1, 2, 4
- X 3. 5, 3, 1, 2, 4
- X 4. 5, 3, 1, 4, 2

Question ID: 8161618121

Status: Answered



Q.3 Select the number that can replace the question mark (?) in the following series. 122, 101, 82, 65, 50, ? 1. 37 Ans X 2. 41 X 3. 42 X 4. 40 Question ID: 8161618150 Status: Answered Chosen Option: 1 Q.4 In a certain code language, ELEPHANTS is written as DMFOIBMUT. How will CROCODILE be written in the same

Ans

- X 1. BQPBNEHKF
- X 2. CSSDDPEJLF
- ✓ 3. BSPBPEHMF
- X 4. DSPDPEJMF

Question ID: 8161618132 Status: Answered

Chosen Option: 3

Select the letter that can replace the question mark (?) in the following series.

C, F, I, ?

- Ans X 1. O
 - **√** 2. **L**
 - X 3. K
 - X 4. J

Question ID: 8161618119 Status: Answered

Chosen Option: 2

Pointing to a photograph a young man said, "He is the son of my mother's elder brother". How is the person in the Q.6 photograph related to the young man?

X 1. Brother-in-law

X 2. Nephew

√ 3. Cousin

X 4. Father

Question ID: 8161618140 Status: Answered



Q.7 A lady introduced a man as "the only son of her sister's father-in-law". How is the man related to the lady?

Ans

- X 1. Brother
- X 2. Husband
- X 3. Son-in-law
- ✓ 4. Brother-in-law

Question ID : 8161618139 Status : Answered

Chosen Option: 4

Q.8 Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



Ans















Question ID : 8161618159 Status : Answered

Chosen Option : $\boldsymbol{2}$

Q.9 Fill in the blank with correct option.

12	20	28
18	30	42
27	?	63

Ans

- X 1. 46
- **2**. 45
- X 3. 43
- X 4. 44

Question ID: 8161618149 Status: Not Answered

Q.10	Select the word-pair from the given options in which the two words are related in the sa following pair.	ame way as the two words in the
	Motor : Car	
Ans	X 1. Tele: Vision	
	× 2. Type : Writer	
	✗ 3. Money : Order	
	✓ 4. Bull: Cart	
		Question ID : 8161618125
		Status : Answered
		Chosen Option : 4
Q.11	'Hat' is related to 'Head' in the same way as 'Belt' is	related to ''.
Ans	× 1. Pant	
	× 2. Trouser	
	✓ 3. Waist	
	X ₄. Bag	
		Question ID : 8161618122 Status : Answered
		Chosen Option : 3
0.12	Select the option in which the number pair shares the same relationship as that shares	d by the following number pair.
Q.12	Select the option in which the number pair shares the same relationship as that shared 54:99	d by the following number pair.
Q.12 Ans		d by the following number pair.
	54:99	d by the following number pair.
	54:99 1. 65:111	d by the following number pair.
	54:99 X 1. 65:111 X 2. 42:88	d by the following number pair.
	54:99 1. 65:111 2. 42:88 3. 32:66	
	54:99 1. 65:111 2. 42:88 3. 32:66	Question ID : 8161618147 Status : Answered
	54:99 1. 65:111 2. 42:88 3. 32:66	Question ID: 8161618147
Ans	54:99 1. 65:111 2. 42:88 3. 32:66	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 ★ 1. 65:111 ★ 2. 42:88 ★ 3. 32:66 ★ 4. 43:77	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many 1. 18	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many 1. 18 2. 21	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many 1. 18 2. 21 3. 20	Question ID : 8161618147 Status : Answered Chosen Option : 4 students were there in the row?
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many 1. 18 2. 21 3. 20	Question ID : 8161618147 Status : Answered Chosen Option : 4
Ans	54:99 1. 65:111 2. 42:88 3. 32:66 4. 43:77 In a row of Class 7 students, Kanika was 9th from left and 11th from right. How many 1. 18 2. 21 3. 20	Question ID: 8161618147 Status: Answered Chosen Option: 4 students were there in the row?



Q.14 Select the correct sequence of mathematical signs to replace the * signs so as to balance the given equation.

40 * 5 * 6 * 2 * 10 = 10

Ans

- X 1. _ ÷ × +
- X 2. × + ÷ _
- √ 3. ÷ + × _
- **X** 4. ÷×+_

Question ID : 8161618151

 ${\tt Status:} \ \textbf{Answered}$

Chosen Option: 3

Q.15 'Owl' is related to 'Hoot' in the same way as 'Frog' is related to '_____'.

Ans

- √ 1. Croak
- X 2. Caw
- X 3. Quack
- X 4. Cackle

Question ID: 8161618124

Status : Answered

Chosen Option: 1

Q.16 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:

- 1) All horses are bears.
- 2) All bears are donkeys.

Conclusions:

- I. All donkeys are horses.
- II. All horses are donkeys.

Ans

- N 1. Both conclusions I and II follow
- X 2. Only conclusion I follows
- √ 3. Only conclusion II follows
- X 4. Neither conclusion I nor II follows

Question ID : 8161618136

Status: Answered



Q.17 Select the option in which the given figure is embedded (Rotation is not allowed). Ans Question ID: 8161618158 Status: Answered Chosen Option: 1 Q.18 Which letter from the options will replace the question mark (?) in the following series? V, T, R, P, N, ? X 1. K Ans × 2. M **X** 3. **J √** 4. L Question ID: 8161618113 Status: Answered Chosen Option: 4



Q.19 Select the option that is related to the third term in the same way as the second term is related to the first term.

PENCIL: EPCNLI: ERASER:

Ans

- X 1. ARERES
- √ 2. RESARE
- X 3. RESERA
- X 4. REASRE

Question ID : **8161618128** Status : **Answered**

Chosen Option: 2

Q.20 Which letter cluster will replace the question mark (?) in the following letter series?

USW, SQU, QOS, ?

Ans

- X 1. SQS
- √ 2. OMQ
- X 3. OMI
- X 4. QSW

Question ID: 8161618115

Status : **Answered**

Chosen Option : 2

- Q.21 Identify the option that arranges the following stages in a logical and meaningful sequence.
 - 1. Puberty
 - 2. Infancy
 - 3. Adolescence
 - 4. Neonatal
 - 5. Childhood

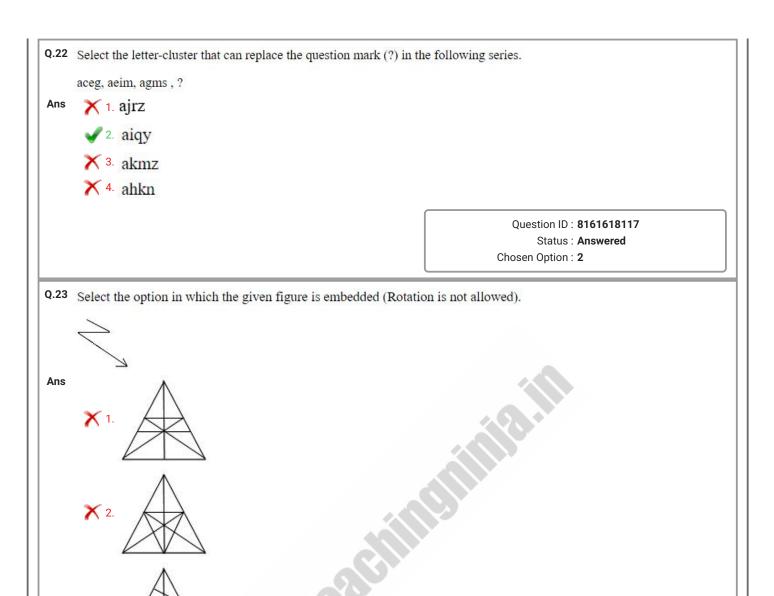
Ans

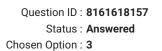
- **X** 1. 4, 2, 1, 5, 3
- × 2. 2, 4, 5, 1, 3
- X 3. 4, 2, 5, 3, 1
- 4. 4, 2, 5, 1, 3

Question ID: 8161618120

Status: Answered



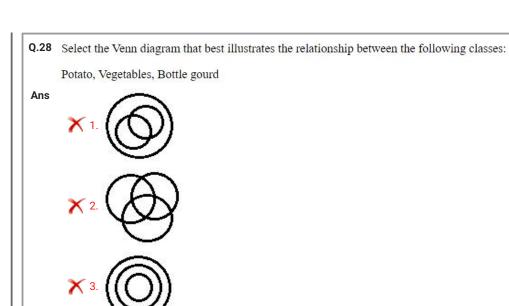






Q.24	Select the option that is related to the third term in the same way as the second term is	related to the first term.
	CARPENTER: RETNDPRAC:: SUGARCANE:	
Ans	★ 1. GUSCRAENA	
	× 2. AGUSSENAC	
	X 3. AGUSRENAC	
	✓ 4. ENACQAGUS	
		Question ID : 8161618129
		Status : Answered
		Chosen Option : 4
Q.25	Select the option in which the number pair shares the same relationship as that shared by the	e following number pair.
ľ	344:513	-
Ans	√ 1. 126 : 217	
	× 2. 1331 : 2744	
	× 3. 999 : 1330	
	× 4. 1332 : 1001	
		Question ID : 8161618148
		Status: Answered
		Chosen Option: 1
Q.26	'Advocate' is related to 'Advice' in the same way as 'Physician' is r	elated to ' '.
Ans	✓ 1. Prescription	-
	× 2. Patient	
	X 3. Disease	
	× 4. Operation	
	4. Operation	
		Question ID : 8161618123
		Status : Answered Chosen Option : 1
		Chosen Option: 1
Q.27	Which number from the options will replace the question mark $(?)$ in the second contract of the second contract	ne following series?
	0, 8, 24, 48, ?	
Ans	X 1. 81	
	× 2. 74	
	× 3. 82	
	✓ 4. 80	
		Question ID : 8161618143
		Status : Answered
		Chosen Option : 4





Question ID : 8161618161 Status : Answered Chosen Option : 4

Q.29 Which letter from the options will replace the question mark (?) in the following series?

D, H, M, Q, V, ?

Ans







X 4. Y

Question ID : 8161618114 Status : Answered



Q.30 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: 1) Some Cats are Rats. 2) All Rats are Bats. Conclusions: I. Some Cats are Bats. II. Some Bats are Cats. Ans X 1. Only conclusion II follows X 2. Only conclusion I follows ✓ 3. Both conclusions I and II follow X 4. Neither conclusion I nor II follows Question ID: 8161618135 Status: Answered Chosen Option: 1 Q.31 Four different positions of a dice are shown below. Identify the letter which lies exactly opposite to the letter 'E' on this X 2. C X 4. B Question ID: 8161618155 Status: Answered Chosen Option: 3 Q.32 If LONDON is coded as 37, then NEWYORK is coded as: X 1. 54.5 X 2. 55 X 3. 53.5 4. 55.5

> Question ID : **8161618133** Status : **Answered** Chosen Option : **4**



Q.33 Train A runs at the speed of 80 km/h and it leaves from station X at 6:00 o'clock. Train B departs from the same station at 6:15 o'clock. At what speed should train B run so as to reach together with Train A on the next station located at a distance of 100 km?

Ans

√ 1. 100 km/h

× 2. 90 km/h

X 3. 95 km/h

X 4. 110 km/h

Question ID: 8161618153
Status: Not Answered

Chosen Option: --

Q.34 Select the option in which the two words are related in the same way as are the two words in the given word-pair.

Bengali : Bangladesh

Ans

1 Arabic : Iraq

X 2. Aymara : Burma

X 3. Spanish: Brazil

X 4. Greek : Nigeria

Question ID: 8161618127

Status: Answered

Chosen Option: 2

Q.35 Arrange the following words in an order they appear in dictionary.

1. Depending

Dependence

3. Dependency

4. Dependant

Ans

X 1. 2, 4, 3, 1

× 2. 2, 4, 1, 3

√ 3. 4, 2, 3, 1

X 4. 1, 4, 2, 3

Question ID: 8161618118

Status: Answered



Q.36 Which two signs need to be interchanged in the following equation so that the equation will be mathematically correct?

 $7 + 5 \div 10 - 13 \times 13 = 56$

Ans

X 1. - and +

X 2. ÷ and -

 \times 3. + and \times

√ 4. × and ÷

Question ID: 8161618145

Status: Answered

Chosen Option: 4

Q.37 Select the option in which the following figure is embedded (Rotation is not allowed).



Ans

















Question ID: 8161618156

Status: Answered

Chosen Option: 3

Q.38 Select the option in which the number pair shares the same relationship as that shared by the following number pair.

169:121



Ans

1. 49:25

X 2. 225 : 169

X 3. 64:36

X 4. 144: 100

Question ID: 8161618146

Status: Answered



Q.39 If '-' means division, ' × ' means addition, ' ÷ ' means multiplication and ' + ' means subtraction, then which of the following equations is correct?

Ans

$$\times$$
 1 18 + 6 × 8 - 16 ÷ 4 = 62

$$\checkmark$$
 2. 18 × 6 ÷ 8 + 16 - 4 = 62

$$\times$$
 3. 18 + 6 × 8 ÷ 16 - 4 = 62

$$\times$$
 4. 18 - 6 ÷ 8 × 16 + 4 = 62

Question ID : **8161618152**Status : **Answered**Chosen Option : **2**

Q.40 Which number from the options will replace the question mark (?) in the following series?

90, 18, 72, 24, ?, 48

Ans

X 4. 12

Question ID : 8161618144 Status : Answered

Chosen Option: 4

Q.41 A vendor packed 96 eggs into three boxes: X, Y and Z. There are twice as many eggs in the Z box as there are in the X box, and twice as many in the X and Y boxes combined as there are in the Z box. How many eggs did he pack in the Y box?

Ans



Question ID : 8161618154 Status : Answered

Chosen Option: 4

Q.42 Five friends were sitting on a bench facing the east. Ritik was seated just right to Abhi, but on the third left of Ranjan.
Ajit and Jayant were sitting together Jayant being to the right of Ajit. Who was sitting to the extreme right on the bench?

Ans

Question ID : 8161618142 Status : Answered



Q.43 A paper is folded and cut as shown below. How will it appear when figure R is unfolded? Ans **ዕ** ዕ ዕ ዕ 0000 Question ID: 8161618160 Status: Answered Chosen Option: 4 Q.44 Which letter cluster will replace the question mark (?) in the following letter series? ORVY, MPTW, KNRU, ? X 1. LORU Ans X 2. ILOR ✓ 3. ILPS X 4. LOSV Question ID: 8161618116 Status: Answered Chosen Option: 3 Q.45 While going to market from her office Kritika initially went straight, then she turned right and walked a while. From there she turned left and again turned left after traveling some distance. If she is now going northward, in which direction did she initially start from her office? Ans X 1. South east ✓ 2. East X 3. South X 4. West Question ID: 8161618137 Status: Answered Chosen Option: 4



Q.46 Select the Venn diagram that best illustrates the relationship between the following classes: Students, Football players, Basketball players Ans Question ID: 8161618162 Status: Answered Chosen Option: 4 Q.47 Select the option that is related to the third term in the same way as the second term is related to the first term. GOLDSMITH: GPNGWROAP:: NEWSPAPER: Ans 1. NFXTQBQFS X 2. NFYURCRGT X 3. NREEWPSAP 4. NFYVTFVLZ Question ID: 8161618130 Status: Answered Chosen Option: 4 Q.48 Select the word-pair from the given options in which the two words are related in the same way as the two words in the following pair. Hostile : Friendly Ans Confident : Brave 2. Discourteous : Humorous √ 3. Rude : Polite X 4. Pessimistic : Helping Question ID: 8161618126 Status: Answered Chosen Option: 3



Q.49 Shreya traveled 6 km from point A to reach point B. She took a left turn from there and traveled 5 km up to point C. She then took a right turn to reach point D at a distance of 6 km. After reaching point D, she turned left and traveled 3 km to reach point E. Finally, she turned left from there and traveled 12 km and stopped at point F. Find the aerial distance between point B and F. Ans X 1. 11 km × 2. 8 km √ 3. 10 km X 4. 9 km Question ID: 8161618138 Status: Answered Chosen Option: 3 Q.50 If LEATHER is coded as 67 and JAGGERY is coded as 71, then how will MECHANIC be coded? X 1. 52 Ans **2**. 54 X 3. 50 X 4. 56 Question ID: 8161618134 Status: Answered Chosen Option: 2 Section: General Awareness is an active ingredient in all the alcoholic drinks. Ans 1. Pentane 2. Ethanol 3. Butane X 4. Propane Question ID: 8161618185 Status: Answered Chosen Option: 3 Q.2 Which of the following acids is found in ant sting? 1. Methanoic acid 2. Tartaric acid 3. Oxalic acid 🗙 4. Acetic acid Question ID: 8161618187

> Status : **Answered** Chosen Option : **3**



Q.3	Who has become the new Vice Chief of Army Staff in January 2020?	
Ans	1. Arvind Kumar	
	2. Samant Goel	
	X 3. V K Johri	
	√ 4. S K Saini	
		0 11 15 2444244
		Question ID : 8161618166 Status : Answered
		Chosen Option : 4
0.4	In December 2019, Finance Minister Nirmala Sitharaman launched whic	h of the following e-
	auction platforms to enable online auction of attached assets by banks?	
Ans	1. eBkray	
	× 2. Ubid	
	X 3. Listia	
	X 4. eBay	
		Out artists 10 x 0464640479
		Question ID : 8161618173 Status : Answered
		Chosen Option: 1
0.5	When is the Netional Verith Day sheemed?	
Q.5 Ans	When is the National Youth Day observed? 1. 23 rd June	
	2. 12 th January	
	3. 14 th March	
	X 4. 10 th May	
	4. 10" May	
		Question ID : 8161618165
		Status : Answered
		Chosen Option : 2
Q.6	In which of the following states is the Somasila dam situated?	
Ans	1. Kerala	
	🗙 2. Telangana	
	X 3. Maharashtra	
	4. Andhra Pradesh	
		Question ID : 8161618197 Status : Not Answered
		Chosen Option :



0.7	What will be the default temperature setting of room ACs, according to	the new energy
	standards by Bureau of Energy Efficiency (BEE)?	
Ans	√ 1. 24°C	
	X 2. 16℃	
	X 3. 18℃	
	X 4. 22℃	
		Ouestion ID : 8161618183
		Status : Answered
		Chosen Option : 1
Q.8	Which of the following instrument is used to check the purity of milk by relative density of milk?	measuring the
Ans	√ 1. Lactometer	
	× 2. Odometer	
	X 3. Barometer	
	X 4. Spherometer	
		Question ID : 8161618177 Status : Answered
		Chosen Option : 1
Q.9 Ans	The Global Social Mobility Index is released by which of the following o 1. World Economic Forum 2. World Bank 3. World Trade Organization 4. International Monetary Fund	rganisations?
	 1. World Economic Forum 2. World Bank 3. World Trade Organization 	Question ID : 8161618172
	 1. World Economic Forum 2. World Bank 3. World Trade Organization 	Question ID : 8161618172 Status : Answered
	 1. World Economic Forum 2. World Bank 3. World Trade Organization 	Question ID : 8161618172
Ans	 1. World Economic Forum 2. World Bank 3. World Trade Organization 	Question ID : 8161618172 Status : Answered Chosen Option : 1
Ans Q.10	1. World Economic Forum 2. World Bank 3. World Trade Organization 4. International Monetary Fund Based on functional classification, how many types of joints are presen 1. 4 2. 3 3. 9	Question ID : 8161618172 Status : Answered Chosen Option : 1
Ans Q.10	1. World Economic Forum 2. World Bank 3. World Trade Organization 4. International Monetary Fund Based on functional classification, how many types of joints are presen 1. 4	Question ID : 8161618172 Status : Answered Chosen Option : 1
Ans Q.10	1. World Economic Forum 2. World Bank 3. World Trade Organization 4. International Monetary Fund Based on functional classification, how many types of joints are presen 1. 4 2. 3 3. 9	Question ID : 8161618172 Status : Answered Chosen Option : 1



Q.11	Ionising has/have sufficient energy to affect the atoms in living c damage their genetic material.	ells and thereby
Ans	X 1. water	
	X 2. chemicals	
	3. radiation	
	X 4. reaction	
		Question ID : 8161618189 Status : Answered
		Chosen Option : 3
Q.12	Which one of the following districts became first kerosene-free district October 2019?	of Gujarat in
Ans	X 1. Rajkot	
	× 2. Jamnagar	
	X 3. Surat	
	4. Gandhinagar	
		Question ID : 8161618192 Status : Answered
		Chosen Option : 2
O 13	When was the second battle of Panipat fought?	
Ans	✓ 1. 1556	
	× 2. 1549	
	₹ 3.1578	
	X 4. 1590	
		Question ID : 8161618201 Status : Answered
		Chosen Option : 1
0.14	Which of the fellowing films has you the Best Film Award in Asian Com-	natisian pastian of
Q.14	Which of the following films has won the Best Film Award in Asian Com the 18 th Dhaka International Film Festival?	pention section of
Ans	1. Edward	
	2. Castle of Dreams	
	3. Finally Love	
	4. Children of the Sun	
		Question ID : 8161618167
		Status : Not Answered
		Chosen Option :



0.15	The successive decomposition of dead material and modified of	organic matter results in the
	formation of a more complex organic matter, which is called:	, 3
Ans	T. Hallido	
	X 2. moth	
	X 3. algae	
	X 4. marsh	
		Question ID : 8161618198
		Status : Answered
		Chosen Option : 1
Q.16	In which of the following years was the South Asian Associatio (SAARC) established?	n of Regional Cooperation
Ans	√ 1. 1985	
	X 2. 1975	
	X 3. 1969	
	× 4. 1990	
		Question ID : 8161618199 Status : Not Answered
		Chosen Option :
Q.17 Ans	When did Mahatma Gandhi pass away? 1. 13 th January 1945	
71110		
	2. 30 th January 1948	
	3. 4 th May 1949	
	× 4. 30 th June 1946	
	KY ASS	Question ID : 8161618200
		Status : Answered
		Chosen Option : 2
Q.18	In which of the following cities did the Defence Research and D (DRDO) participate in the Pride of India-Science Expo-2020 at t Congress?	evelopment Organization the 107th Indian Science
Ans		
	X 2. Hyderabad	
	✓ 3. Bengaluru	
	X 4. Patna	
		Question ID : 8161618169
		Status : Answered Chosen Option : 3



Q.19 In July 2019, which one of the following states announced a plan to set up the country's first space tech park? Ans	
 2. Karnataka 3. Kerala 4. Andhra Pradesh Question ID: 8161618191 Status: Answered 	
3. Kerala 4. Andhra Pradesh Question ID: 8161618191 Status: Answered	
4. Andhra Pradesh Question ID: 8161618191 Status: Answered	
Question ID : 8161618191 Status : Answered	\neg
Status : Answered	\neg
Status : Answered	
Q.20 What does ECG stand for?	=
Ans 1. Electrocardiogram	
× 2. Electrocardiograph	
X 3. Electriccoronarygraph	
X 4. Electriccoronarygram	
	\neg
Question ID : 8161618179 Status : Answered	
Chosen Option: 2	
	4
Q.21 Who is the Brand Ambassador of Madhya Pradesh to promote state's traditions and tourist places?	
Ans 1. Sunil Shetty	
2. Govinda	
X 3. P V Sindhu	
X 4. Madhuri Dixit	
Question ID : 8161618204	\neg
Status : Answered	
Chosen Option : 1	
Q.22 Home Minister Amit Shah has released the book 'Karamyodha Granth', which is written on the life of:	
Ans 1. Narendra Modi	
🔀 2. Mahatma Gandhi	
🔀 3. Rajendra Prasad	
X 4. B R Ambedkar	
Outpotion ID : 9151519995	\neg
Question ID : 8161618205 Status : Answered	
Chosen Option: 1	_]
·	



Q.23 Manipur, Meghalaya and Tripura celebrated their 48th Statehood Day on: X 1. 17th October, 2019 √ 2. 21st January, 2020 X 3. 11th February, 2020 X 4. 30th June, 2019 Question ID: 8161618196 Status: Not Answered Chosen Option: --Q.24 In which of the following year The Union Public Service Commission was formed? X 1. 26-11-1948 X 2. 23-12-1934 X 3. 11-02-1945 **4**. 1-10-1926 Question ID: 8161618209 Status: Answered Chosen Option: 1 __ is the illegal reproduction and distribution of software application. Ans 🗙 1. Sorting 2. Piracy X 3. Cracker X 4. Virus Question ID: 8161618163 Status: Answered Chosen Option: 3 Q.26 Scurvy is a disease caused by severe and chronic deficiency of: Ans X 1. Vitamin K 🗶 2. Vitamin A 🥒 3. Vitamin C \chi 4. Vitamin B Question ID: 8161618174 Status: Answered Chosen Option: 3



Ans 1. Raj 2. Raj 3. T V 4. P K Q.29 Which one of with the representation of the control of the	Lanka utan pal ry 2020, who is the Expenditure Secretary of India? iv Gauba iv Kumar ' Somanathan	Question ID : 8161618171 Status : Answered Chosen Option : 1
3. Bhu 4. Nep 4. Nep 4. Nep 4. Raj 7. Raj 7. Raj 7. Raj 7. A. P K 7. Ans	ry 2020, who is the Expenditure Secretary of India? iv Gauba iv Kumar ' Somanathan Sinha of the following states has signed the MoU for 'Zero resentatives of a German firm, KFW, in January 202	Question ID : 8161618171 Status : Answered Chosen Option : 1 Description of the status is a status in the status
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Q.29 Which one of with the representation of the with th	Somanathan Sinha of the following states has signed the MoU for 'Zero resentatives of a German firm, KFW, in January 202	Status : Answered Chosen Option : 1 Description : 1
Q.29 Which one of with the representation of the with the wi	of the following states has signed the MoU for 'Zero resentatives of a German firm, KFW, in January 202	Status : Answered Chosen Option : 1 Description : 1
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Ans 1. And 2. Bih	resentatives of a German firm, KFW, in January 202	Chosen Option : 1 o Budget Natural Farming'
Ans 1. And 2. Bih	resentatives of a German firm, KFW, in January 202	o Budget Natural Farming'
Ans 1. And 2. Bih	resentatives of a German firm, KFW, in January 202	o Budget Natural Farming' 20?
Ans		
X 3. Aru	uma madeom	
X 3. Aru	ar	
	ınachal Pradesh	
	LY CO	Question ID: 8161618195
		Status : Answered Chosen Option : 4
		Silocon option: 1
	current always produces a/an field.	
Ans X 1. vol		
X 2. ver		
X 3. kin	etic	
√ 4. ma	gnetic	
		Question ID : 8161618175 Status : Answered
		Chosen Option : 4



	At present, how many observer countries are there in SAARC?	
Ans	X 1.17	
	₹ 2.8	
	★ 3.15	
	4.9	
		Question ID : 8161618207
		Status : Not Answered
		Chosen Option :
Q.32	Wing Commander of the Indian Air Force was awarded the 'Vir Chi Independence Day in 2019.	akra' on
Ans	\chi 1. Harjit Singh Arora	
	2. Abhinandan Varthaman	
	X 3. Rakesh Kumar Singh	
	X 4. Subroto Mukherjee	
		Question ID : 8161618168
		Status : Answered
		Chosen Option : 2
Q.33	Who was the first External Affairs minister of India after independence?	
Ans	1. Pt. Jawaharlal Nehru	
	× 2. Dr. B R Ambedkar	
	X 3. Sardar Baldev Singh	
	\chi 4. John Matthai	
	KY ASS	Question ID : 8161618202 Status : Answered
		Chosen Option : 3
0.34	With which of the following games is Saikhom Mirabai Chanu associated	12
Ans	1. Badminton	••
	× 2. Shooting	
	3. Weightlifting	
	X 4. Tennis	
	• •	
		Question ID : 8161618212 Status : Answered
		Chosen Option: 3



Q.35	A 'ring of fire' is a ring of around the Pacific Ocean, which oceanic plates beneath lighter continental plates.	ch results from subduction of
Ans	√ 1. volcanoes	
	X 2. tides	
	X 3. power	
	X 4. bush fires	
		Question ID: 8161618190 Status: Answered
		Chosen Option : 1
		·
	Melanin is a that protects the eyes from ultraviolet ligh	t.
Ans	1. pigment	
	× 2. mineral	
	X 3. vitamin	
	X 4. glycerol	
		Question ID : 8161618176
		Status : Answered Chosen Option : 1
		S. C. Spielle
Q.37 Ans	The appoints the Chairman and members of Finance Co	ommission.
	2. President of India	
	3. Supreme Court of India	
	X 4. Prime Minister of India	
	LY AGO	Question ID : 8161618206
		Status : Answered Chosen Option : 2
		оловал ориали 2
Q.38	The study of insects is known as:	
Ans	1. entomology	
	× 2. mycology	
	X 3. philology	
	X 4. phycology	
		Question ID : 8161618184
		Status : Answered
		·



Q.39 As of January 2020, the number of seats allotted to Assam in the Rajya Sabha is:				
Ans	Ans X 1.11			
	√ 2.7			
	★ 3.9			
	★ 4.14			
		Question ID : 8161618210		
		Status : Answered		
		Chosen Option : 3		
Q.40	is a hormone that is produced by the pancreas and helps in re	gulating blood sugar		
Ans	levels. 1. Growth harmone			
	2. Insulin			
	X 3. Oestrogen			
	× 4. Thyroxin			
		Question ID : 8161618181		
		Status : Answered Chosen Option : 2		
Q.41	.41 In January 2020, with which of the following countries has India agreed to further strengthen cooperation to ensure maritime security in Indian Ocean region and sharing of intelligence inputs?			
Ans	X 1. Maldives			
	2. Sri Lanka			
	X 3. Bhutan			
	🔀 4. Nepal			
	KY ASS			
		Question ID : 8161618170 Status : Answered		
		Chosen Option : 1		
0.42	When is mixed with nickel and chromium, we get stainless ste	al		
Q.42 Ans	1. copper	ਦ।.		
	× 2. zinc			
	✓ 3. iron			
	4 . tin			
		Question ID : 8161618188		
		Status : Answered Chosen Option : 3		
		Giloseii Optioii . 3		



Q.43	Which of the following articles of the Indian Constitution prohibits in factories?	s employment of children
Ans	1. Article 34	
	2. Article 35	
	X 3. Article 27	
	4. Article 24	
		Question ID : 8161618208
		Status : Answered
		Chosen Option : 4
0.44	As of January 2020, where is the headquarters of BCCI situated?	
Ans	✓ 1. Mumbai	
	× 2. Hyderabad	
	X 3. Bengaluru	
	X 4. New Delhi	
	•	
		Question ID : 8161618211
		Status : Answered Chosen Option : 4
Q.45	The purity of gold is measured in:	
Ans	X 1. Meter	
	2. Karat	
	🔀 3. Watt	
	X 4. Knot	
	K V A 636	Question ID : 8161618178
		Status : Answered Chosen Option : 2
		chocom option: 2
Q.46	What does HTTPS stand for?	
Ans	1. Hyper Text Transport Protocol Secure	
	2. Hyper Text Transfer Protocol Secure	
	X 3. Hyper Transfer Tariff Protocol System	
	X 4. Hyper Transport Tariff Protocol System	
		Question ID : 8161618164
		Status : Answered
		Chosen Option : 2



Q.47 Ans	Q.47 Lord Mahavira was born in present-day state of:				
AllS	* V argue				
	2. Gujarat				
	3. Maharashtra				
	4. Bihar				
		Question ID : 8161618203			
		Status : Answered Chosen Option : 4			
		Shooth option: 4			
Q.48 An electric is the most important safety device, used for protecting the circuits due to short-circulating or overloading of the circuits.					
Ans	1. fuse				
	× 2. motor				
	X 3. magnet				
	X 4. generator				
		Question ID: 8161618186			
		Status : Answered			
		Chosen Option: 1			
Q.49	Jaundice affects newborn babies when they have too much b	pilirubin in their:			
Ans	√ 1. blood				
	X 2. pancreas				
	X 3. lungs				
	X 4. kidneys				
		Question ID : 8161618180			
	KI 40°	Status : Answered			
		Chosen Option : 2			
Q.50 Which of the following is the largest hydroelectric dam in the world in terms of electricity production?					
Ans	🗙 1. Tarbela Dam				
	🗙 2. Longtan Dam				
	√ 3. Three Gorges Dam				
	X 4. Hirakud Dam				
		Question ID : 8161618194			
		Status: Not Answered			
		Chosen Option :			

Section: General Engineering Electrical



Q.1 A power station has a maximum demand of 15000 kW. The annual load factor is 50% and plant capacity factor is 40%. Determine the plant capacity.

Ans

- X 1. 18.75 kW
- X 2. 1875 MW
- X 3. 1875 kW
- **✓** 4. 18.75 MW

Question ID: **8161618284**Status: **Answered**

Chosen Option: 2

Q.2 Which of the following types of instruments is used to measure voltage only?

Ans

- X 1. Moving-iron type
- × 2. Permanent-magnet moving coil type
- 3. Electrostatic type
- X 4. Induction type

Question ID: 8161618248

Status: Answered

Chosen Option: 3

Q.3 Calculate annual bill of a consumer whose maximum demand is 100 kW, p.f. = 0·8 lagging and load factor = 60%. The tariff used is ₹50 per kVA per annum of maximum demand plus 10 paise per kWh consumed.

Ans

- √ 1. ₹58,810
- × 2. ₹10,550
- X 3. ₹65,800
- X 4. ₹75,250

Question ID: 8161618298 Status: Not Answered

Chosen Option: --

Q.4 The area of cross-section of copper wire is 3×10^{-6} m². It carries a current of 4.2 A. Calculate current density in the wire

Ans

- \checkmark 1. 1.4 × 10⁶ A/m²
- \times 2. 1.4 × 10⁻⁶ A/m²
- \times 3. 1.4 × 10⁶ C/m²
- \times 4. 12.6 × 10⁻⁶ A/m²

Question ID: 8161618218 Status: Answered



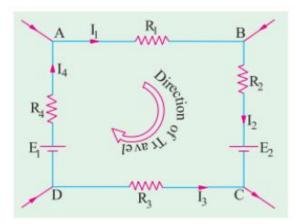
The rate at which electrical energy is supplied to a consumer is known as: Ans X 1. energy rate ✓ 2. tariff X 3. power rate X 4. rated consumption Question ID: 8161618294 Status: Answered Chosen Option: 2 With respect to electric heating, select the INCORRECT statement. Y 1. Working with electric furnaces is convenient and cool. X 2. It is a clean system of heating. √ 3. Poor efficiency X 4. No flue gases are produced. Question ID: 8161618305 Status: Answered Chosen Option: 1 What is the fundamental angular frequency of a square wave with a period of 0.02 s? Ans X 1. 200 π rad/s \times 2. 150 π rad/s √ 3. 100 π rad/s \times 4. 50 π rad/s Question ID: 8161618239 Status: Answered Chosen Option: 3 The flow of small current during the reverse biased condition in a diode is known as: 1 majority carrier current X 2. biased current X 3. peak current

4. leakage current

Question ID: **8161618307**Status: **Answered**Chosen Option: **4**



Q.9 Select the correct answer with respect to the given network.



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Ans

$$\times$$
 1. $-I_1R_1 - I_2R_2 - I_3R_3 - I_4R_4 + E_2 + E_1 = 0$

$$\times$$
 2. $-I_1R_1 - I_2R_2 - I_3R_3 - I_4R_4 - E_2 - E_1 = 0$

$$\checkmark$$
 3. $-I_1R_1 - I_2R_2 + I_3R_3 - I_4R_4 - E_2 + E_1 = 0$

$$\times$$
 4. $-I_1R_1 - I_2R_2 - I_3R_3 - I_4R_4 = E_2 + E_1$

Question ID: 8161618223 Status: Answered

Chosen Option: 3

Q.10 The overall efficiency of the steam power plant is defined as:

Ans

- 1. heat equivalent of mechanical output
- heat equivalent of electrical output heat of combustion of coal
- X 3. heat equivalent of electrical output heat equivalent of mechanical output
- × 4. electrical output

 heat of combustion of coal

Question ID : 8161618280 Status : Answered

Chosen Option: 1

Q.11 What is the resultant charge in a body whenever the number of protons equals the number of electrons in it?

An

- X 1. positive charge
- × 2. sometimes positive and sometimes negative
- √ 3. zero charge
- X 4. negative charge

Question ID : **8161618214** Status : **Answered**

Q.12 Plant capacity factor is the:

Ans

- X 1. ratio of average load to minimum demand
- × 2. ratio of minimum demand to plant capacity
- X 3. ratio of maximum demand to plant capacity
- ✓ 4. ratio of average demand to plant capacity

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Question ID : **8161618289**Status : **Marked For Review**

Chosen Option: 3

Q.13 The prime mover used in thermal power plant is:

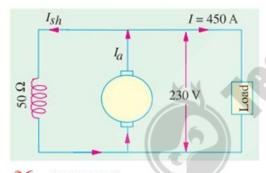
Ans

- X 1 wind turbine
- √ 2. steam turbine
- X 3. PV cell
- X 4. reaction turbine

Question ID: 8161618278 Status: Answered

Chosen Option: 2

Q.14 Determine the generated EMF of the given generator if the armature resistance is 0.1 Ω .



Ans

- X 1. 225.75 V
- X 2. 230.00 V
- X 3. 185.50 V
- ✓ 4. 275.46 V

Question ID: 8161618256

Status: Answered



Q.15 The illumination at a point on a working plane directly below the lamp is to be 80 lumens/m². The lamp gives 180 C.P. uniformly below the horizontal plane. Determine the height at which the lamp is suspended.

Ans

X 1. 5.5 m

✓ 2. 1.5 m

X 3. 0.5 m

X 4. 3.5 m

Question ID : 8161618303 Status : Not Answered

Chosen Option : --

Q.16 What is the relation between magnetic flux density B and magnetic field strength H?

Ans

$$\checkmark$$
 1. $B = \mu H$

$$\times$$
 2. $H = B/l$

$$X$$
 3. $B = H/l$

$$\times$$
 4. $H = \mu B$

Question ID: 8161618232

Status : **Answered**

Chosen Option: 1

Q.17 An alternator is supplying a load of 300 kW at a p.f. of 0.6 lagging. If the power factor is raised to unity, how many more kilowatts can the alternator supply for the same kVA loading?

Ans

Question ID : 8161618299 Status : Answered

Chosen Option : 2

Q.18 Two magnetic poles are located 5 cm apart in air. If each pole has a strength of 5 mWb, find the force of repulsion between them.

Ans

$$\times$$
 1. $\frac{1}{\pi^2}$ N

$$\sqrt{2}$$
. $\frac{6250}{\pi^2}$ N

$$\times$$
 3. $\frac{625}{\pi^2}$ N

$$\times$$
 4. $\frac{62.5}{\pi^2}$ N

Question ID: 8161618235 Status: Not Answered

Q.19 Magnetic field strength at a point distant r metres from a pole is:

Ans

- \times 1. directly proportional to square of the r^3
- \times 2. directly proportional to square of the r^2
- \times 3. directly proportional to square of the r
- 4. inversely proportional to square of the r³

Question ID: 8161618231

Status: Answered

Chosen Option: 3

Q.20 If the no-load voltage of a 3-phase, 440 V, 50 Hz alternator is 495 V, then its voltage regulation is:

Ans

- 1. 12.5%
- X 2. 10.5%
- X 3. 34%
- X 4. 10%

Question ID: 8161618273

Status: Answered

Chosen Option: 1

Q.21 The ratio of average load to maximum demand in the power plant is defined as:

Ans

- √ 1. load factor
- × 2. diversity factor
- X 3. capacity factor
- X 4. demand load

Question ID: 8161618293

Status: Answered

Chosen Option: 1

Q.22 Absolute permeability of free space is equal to:

Ans

- ✓ 1. 4π × 10⁻⁷ H/m
- \times 2. 4/ π × 10⁻⁷ H/m
- \times 3. 4/ π × 10⁷ H/m
- \times 4. $4\pi \times 10^7$ H/m

Question ID: 8161618228

Status : Answered



Q.23 Calculate the flux density at a distance of 5 cm from a long straight circular conductor carrying a current of 250 A and placed in air.

Ans

X 1. 10² Wb/m²

 \times 2. 10⁻² Wb/m²

✓ 3. 10⁻³ Wb/m²

X 4. 103 Wb/m²

Question ID: 8161618234

Status : **Answered**

Chosen Option: 3

Q.24 The number of electrons presents in 1 coulomb of charge is:

Ans

X 1. 825 x 1016

✓ 2. 625 × 10¹⁶

 \times 3. 625 × 10⁻¹⁶

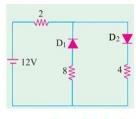
X 4. 625 × 10⁻¹⁸

Question ID : 8161618216

Status : Answered

Chosen Option: 3

Q.25 Determine the supply current in the given network. Take the voltage drop during the forward biased condition is 0.3 V.



Ans

X 1. 11.7/14 A

× 2. 11.4/6 A

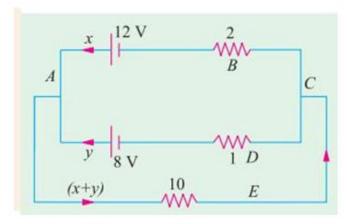
X 3. 11.7/10 A

✓ 4. 11.7/6 A

Question ID : **8161618310**

Status: Not Answered

Q.26 Determine the currents x, y in the given network.



Ans

✓ 1.
$$\chi = \frac{13}{8} A, y = -\frac{3}{4} A$$

$$\times$$
 2. $x = -\frac{13}{8} A, y = -\frac{3}{4} A$

$$\times$$
 3. $\chi = -\frac{13}{8} A, y = \frac{3}{4} A$

$$\times$$
 4. $x = \frac{13}{8} A, y = \frac{3}{4} A$

Question ID : 8161618226 Status : Not Answered

Chosen Option: --

Q.27 Let ϕ be the phase angle between the line current and line voltage, and α be the load angle. The per phase mechanical power developed by a synchronous motor is:

Ans

$$\times$$
 1. $\frac{E_b V}{X_s} \sin \phi$

$$\times$$
 2. $\frac{E_b V}{X_s} \cos \alpha$

$$\times$$
 3. $\frac{E_b V}{X_s} \cos \phi$

$$\checkmark$$
 4. $\frac{E_b V}{X_s} \sin \alpha$

Question ID: 8161618274

Status : **Answered**

Q.28	The algebraic sum of the products of currents and resistances in each of the conductors in any closed path in a network plus the algebraic sum of the EMFs in that path is:		
Ans			
	✓ 2. zero		
	× 3. three		
	× 4. two		
		Question ID : 8161618222	
		Status : Answered	
		Chosen Option: 2	
Q.29	In alternators, the ratio of the vector sum of the induced EMFs per coil to the arithmetic sun coil is defined as:	of the induced EMFs per	
Ans	X 1. power factor		
	✓ 2. pitch factor		
	× 3. pole pitch		
	× 4. form factor		
	. (23322 20332		
		Question ID : 8161618270 Status : Answered	
		Chosen Option : 2	
0.30	The sine waveform produces the disturbance in the electrical circuit and is the	e smoothest and .	
Ans	★ 1. most, poor efficient waveform		
	× 2. Least, poor efficient waveform		
	✓ 3. Least, efficient waveform		
	× 4. most, efficient waveform		
		Question ID : 8161618237	
		Status : Answered	
		Chosen Option : 3	
Q.31	In an ammeter, The deflecting torque is proportional to the current passing through it, and the instrument has full scale deflection of 80° for a current of 5 A. What deflection will occur for a current of 2.5 A when the instrument is spring-controlled?		
Ans	× 1. 20°		
	× 2. 35°		
	X 3. 45°		
	√ 4. 40°		
		Question ID : 8161618250	
		Status : Answered Chosen Option : 1	
		Gliosell Option: 1	



Q.32 In a steam power plant, the condensate from the condenser is used:

Ans

- X 1. to cool the generator
- ✓ 2. as feed water to the boiler
- X 3. to cool the turbine
- X 4. to cool the boiler

Question ID: 8161618279 Status: Answered Chosen Option: 2

Q.33 A moving-coil ammeter has springs giving a control constant of 0.2×10^{-6} Nm/degree. If the deflecting torque on the instrument is 24×10^{-6} Nm, find the angular deflection of the pointer.

Ans

- ✓ 1. 120°
- × 2. 40°
- X 3. 90°
- X 4. 100°

Question ID : 8161618251 Status : Answered Chosen Option : 1

Q.34 The electrons in the outermost orbit of an atom are known as:

Ans

- ★ 1. strong bond electrons
- X 2. drift electrons
- X 3. non-conductive electrons
- 4. valence electrons

Question ID: 8161618215 Status: Answered Chosen Option: 4

Q.35 In AC transmission system the load current is:

Ans

- ★ 1. inversely proportional to square of power factor
- 2. inversely proportional to power factor
- ★ 3. directly proportional to power factor
- X 4. independent of power factor

Question ID: 8161618287 Status: Answered Chosen Option: 2



Q.36 With respect to DC transmission system select the INCORRECT statement.

Ans



The DC voltage cannot be stepped up with zero spikes for transmission of power at high voltages.





It requires only two conductors as compared to three for AC transmission.



Electric power can be generated at high DC voltage without any commutation problems.



There is no inductance, phase displacement and surge problems in DC transmission.

Question ID: 8161618290 Status: Answered Chosen Option: 3

Q.37 Which of the following three-phase AC systems is used in electric traction?

- X 1. 3 to 3.5 kV at 50 Hz
- X 2. 3 to 3.5 kV at 25 Hz
- X 3. 3 to 3.5 kV at 60 Hz
- ✓ 4. 3 to 3.5 kV at $16\frac{2}{3}$ Hz

Question ID: 8161618301 Status: Answered

Chosen Option: 4

Q.38 An alternating current i is given by $i = 141.4 \sin 314 t$ A. Find the frequency and time period of the current.

Ans

✓ 1.
$$f = 50$$
 Hz, $T = 0.02$ s

$$\times$$
 2. $f = 314$ Hz, $T = 0.02$ s

$$X$$
 3. $f = 314$ Hz, $T = \frac{1}{314}$ S

$$X$$
 4. $f = 50$ Hz, $T = \frac{1}{314}$ s

Question ID: 8161618243 Status: Answered

Chosen Option: 1

Q.39 What happens if an ordinary DC series motor is connected to an AC supply?

- 1 The motor is at stand still condition.
- 2. It will rotate and exert unidirectional torque.
- 3. It will oscillate and exert unidirectional torque.
- 4 It will rotate and exert bidirectional torque.

Question ID: 8161618265 Status: Answered Chosen Option: 3



Q.40 What is the mechanical efficiency in a DC generator?

Ans

- 1. The supplied mechanical power supplied
- \times 2. VI/E_gI_g
- κ 3. $E_g I_g / VI$
- \checkmark 4. $E_g I_g / (mechanical power supplied)$

Question ID : **8161618255** Status : **Answered**

Chosen Option: 3

Q.41 The meter element of a permanent-magnet moving coil instrument has a resistance of 5 Ω and requires 250 mA for full-scale deflection. Calculate the resistance to be connected to enable the instrument to read up to 1 A.

Ans

- \times 1 5 Ω resistor in series
- \checkmark 2. 5/3 Ω resistor in parallel
- \times 3. 5 Ω resistor in parallel
- \times 4. 5/3 Ω resistor in series

Question ID: 8161618252

Status: Answered

Chosen Option : 2

Q.42 What is the RMS value of the inducted EMF/turn in a transformer?

Ans

- \times 1. 4.44 $\frac{f}{\phi_m}$ V
- \checkmark 2. 4.44 $f \phi_m V$
- imes 3. $1.11 f \phi_m$ V
- \times 4. 4 $f \phi_m V$

Question ID: 8161618258

Status: Answered

Chosen Option: 2

Q.43 A generating station which converts heat energy of coal combustion into electrical energy is classified as:

An

- ★ 1. hydroelectric power plant
- 2. Thermal power plant
- 3. nuclear power plant
- X 4. solar power plant

Question ID: 8161618277

Status: Answered

Q.44 The maximum current in a sinusoidal AC circuit is 10 A. What is the instantaneous current at 30° ?

Ans

√1.5A

× 2. 7.07 A

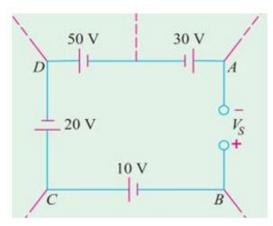
X 3. 10 A

X 4. 5√3 A

Question ID : 8161618241

Status : **Answered** Chosen Option : **1**

Q.45 Determine the source voltage V_s .



Ans

X 1. −30 V

X 2. 20 V

√ 3. 30 V

× 4. −20 V

Question ID: 8161618224

Status: Answered

Chosen Option: 3

Q.46 Magnetic field strength is quantified in terms of:

Ans

√ 1. N/Wb

X 2. Am

X 3. Wb

X 4. Nm

Question ID: 8161618229

Status: Not Answered



9.47 the volume of conductor material required in the throw wise DC tystem is times that required for 2-wire DC system. Ans	Ans 1. 1.25 2. 2 3. 2.5 4. 3 Question ID: 8161618292 Status: Answered Chosen Option: 1 Question ID: 8161618292 Status: Answered Chosen Option: 1 Question ID: 8161618291 Status: Answered Chosen Option: 1 Question ID: 8161618281 Status: Answered Chosen Option: 1 Question ID: 8161618295 Status: Answered Chosen Option: 3 Question ID: 8161618295 Status: Answered Chosen Option: 1 Questi				
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Ougstion ID : 9161619252	Status : Answered				
	Chosen Option : 2			·	
Chosen Option : 2				Chosen Option : 2	



The rate of flow of charge in any element is known as: Ans ✓ 1. current × 2. net charge X 3. conductance X 4. potential Question ID: 8161618213 Status: Answered Chosen Option: 1 Q.52 A diesel engine power plant has one 700 kW and two 500 kW generating units. The fuel consumption is 0.25 kg per kWh. Estimate the fuel oil required for a day if the plant capacity factor = 40%. Ans 1. 4080 kg X 2. 4000 Kg X 3. 4209 kg X 4. 5230 kg Question ID: 8161618300 Status: Not Answered Chosen Option: --In order to make concentric winding in a alternator: Ans **X** 1. The number of slots is equal to three times the number of coils ✓ 2. The number of slots is equal to twice the number of coils X 3. The number of slots is less than the number of coils X 4. The number of slots is equal to the number of coils Question ID: 8161618269 Status: Marked For Review Chosen Option: 2 High voltage for transmitting power is economically available for: X 1 Short circuit current X 2. Open circuit voltage X 3. DC current 4. AC current

Question ID: **8161618296**Status: **Answered**Chosen Option: **3**



Q.55 Which of the following motors is operated either on direct or single-phase AC supply and produces approximately the same speed and output?

Ans

- Universal motor
- 2. Capacitor start and capacitor run induction motor
- X 3. Capacitor start induction run motor
- X 4. 1-phase series motor

Question ID : 8161618266 Status : Answered Chosen Option : 1

Q.56 An alternator on open-circuit generates 360 V at 60 Hz when the field current is 3.6 A. Neglecting saturation, determine the open-circuit EMF when the frequency is 40 Hz and the field current is 2.4 A.

Ans

- X 1. 110 V
- X 2. 140 V
- X 3. 210 V
- ✓ 4. 160 V

Question ID : 8161618276 Status : Answered

Chosen Option: 4

Q.57 An AC current is expressed as $i = 50 \sin 100 t$ A. What is the half-cycle average value of that current?

Ans

- \times 1. $\frac{50}{\pi}$ A
- X 2. 50 A
- X 3. 100 A
- **√** 4. $\frac{100}{\pi}$ A

Question ID : 8161618244 Status : Answered

Chosen Option: 1

Q.58 A consumer has a maximum demand of 200 kW at 40% load factor. If the tariff is ₹200 per kW of maximum demand plus 10 paise per kWh, find the annual charges.

Ans

- √ 1. ₹1,10,080
- **X** 2. ₹90,080
- X 3. ₹1,50,080
- X 4. ₹1,20,080

Question ID: 8161618297 Status: Not Answered

Q.59 Which of the following range of voltage is used in medium transmission lines?

Ans 1. 20 kV to 100 kV

X 2. 66 kV to 400 kV

X 3. 100 kV to 400 kV

X 4. 3.3 kV to 6.6 kV

Question ID : 8161618285 Status : Answered

Chosen Option : 2

Q.60 With respect to high transmission voltage select the INCORRECT statement.

Ans X 1. Reduces volume of conductor material

× 2. Increases transmission efficiency

X 3. Decreases percentage line drop

4.

Decreases cost of transformers, switchgear and other terminal apparatus

Question ID: 8161618291 Status: Answered

Chosen Option : 4

Q.61 In a 1-phase 250/3000 V, 50 Hz transformer, if the EMF per turn is 8 V and $I_{LV} = 400$ A, determine the LV and HV side turns and power rating of the transformer.

Ans

✓ 1. $N_{LV} = 32$, $N_{HV} = 375$, Power rating: 100 kVA

 \times 2. $N_{LV} = 375$, $N_{HV} = 32$, Power rating: 100 kVA

 \times 3. $N_{LV} = 32$, $N_{HV} = 375$, Power rating: 10 kVA

 \times 4. $N_{LV} = 32$, $N_{HV} = 375$, Power rating: 1200 kVA

Question ID: 8161618260

Status : Answered

Chosen Option : 3

Q.62 An electric motor operates at full-load of 100 KW for 10 min, at ½ load for next 20 min, no-load for the next 20 min and this cycle repeats continuously. Find the continuous rating of the suitable motor.

Ans

× 1. √1000 kW

 $\times 2. \sqrt{300} \text{ kW}$

√ 3. √3000 kW

× 4. 75 kW

Question ID: 8161618304

Status : Not Attempted and Marked For Review



Q.63 An element consumes w energy in joules for a time period t seconds. What is the power of the electrical energy given to the element?

Ans

✓ 1. w/t Watt

 \times 2. w-t Watt

 \times 3. $w \times t$ Watt

X 4. w^t Watt

Question ID: 8161618219

Status : **Answered**

Chosen Option: 3

Q.64 Which of the following voltage level is used in primary transmission?

Ans

X 1. 440 V

× 2. 33 kV

X 3. 11 kV

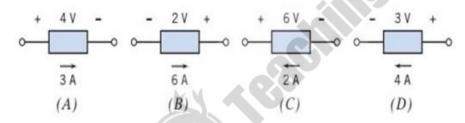
√ 4. 132 kV

Question ID: 8161618286

Status: Answered

Chosen Option: 3

Q.65 Which of the following elements consumes 12 W electrical power?



Ans

√ 1. A and D

X 2. B and C

X 3. C and D

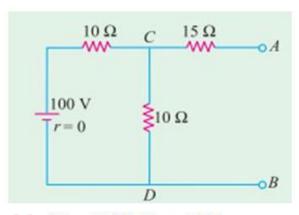
X 4. A and B

Question ID : 8161618220

Status: Answered



Q.66 Determine Thevenin Equivalent circuit parameters for the given circuit.



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Ans

$$\times$$
 1. $V_{th} = 25 V$, $R_{th} = 20 \Omega$

$$\times$$
 2. $V_{th} = 50 V$, $R_{th} = 25 \Omega$

$$X$$
 4. $V_{th} = 100 V$, $R_{th} = 20 \Omega$

Question ID: 8161618225 Status: Answered

Chosen Option: 1

Q.67 The current in a starting winding of a capacitor-start induction-run single phase motor:

Ans

- 1 lags with respect to current of the main winding
- × 2. is in phase with the voltage of the main winding
- ★ 3. is in phase with the supply voltage
- ✓ 4. is leading with respect to voltage of the main winding.

Question ID: 8161618264 Status: Answered

Chosen Option: 4

Q.68 During the forward biased condition in a diode, the ratio of power dissipated in it to the forward DC current is known

Ans

- ★ 1 peak power rating of the diode
- X 2. dynamic resistance
- 3. forward voltage drop
- X 4. static resistance

Question ID: 8161618308

Status : Answered



Q.69 The principle of operation of hot-wire instruments is:

Ans

- ★ 1. electrodynamic effect
- √ 2. thermal effect
- X 3. magnetic effect
- X 4. chemical effect

Question ID: 8161618246 Status: Answered

Chosen Option: 2

Q.70 A quantity which changes its polarity at regular intervals of time is called:

Ans

- √ 1. an alternating quantity
- X 2. DC quantity
- X 3. non-periodic quantity
- X 4. time independent quantity

Question ID: 8161618236 Status: Answered

Chosen Option: 1

Q.71 The crest speed in electric train is:

Ans

- 1. The minimum speed attained by a train during the run
- 2. The maximum speed attained by a train during the run
- X 3. The average speed attained by a train during the run
- X 4. The braking speed attained by a train during the run

Question ID : 8161618302 Status : Answered

Chosen Option: 2

Q.72 Determine the distribution factor for a 4-pole, single-layer 3-phase winding with 36-slots.

Ans

- 1. \frac{\sin 30^\circ}{3\times\sin 10^\circ}
- \times 2. $\frac{\sin 30^{\circ}}{\sin 20^{\circ}}$
- \times 3. $\frac{\sin 30^{\circ}}{3 \times \sin 30^{\circ}}$
- \times 4. $\frac{\sin 60^{\circ}}{\sin 20^{\circ}}$

Question ID : **8161618272** Status : **Answered**

Q.73 The current in a starting winding of a split-phase single phase motor is:

Ans

- X 1. leading with respect to voltage of the main winding
- × 2. in phase with the supply voltage
- 3. leading with respect to current of the main winding
- X 4. in phase with the voltage of the main winding

Question ID : **8161618262**Status : **Answered**Chosen Option : **3**

Q.74 What is the relation between absolute permeability μ_o , relative permeability μ_r , and susceptibility K?

Ans

✓ 1.
$$\mu_r = 1 + \frac{\kappa}{\mu_0}$$

$$\times$$
 2. $\mu = K\mu_r$

$$\times$$
 3. $\mu = K + \mu_r$

$$\times$$
 4. $\mu = K - \mu_r$

Question ID : 8161618233 Status : Answered

Chosen Option : $\boldsymbol{2}$

Q.75 A motor generator set used for providing variable frequency AC supply consists of a three-phase, 10-pole synchronous motor and a 24-pole, three-phase synchronous generator. The motor-generator set is fed from a 25 Hz, three-phase AC supply. Determine the frequency of the generated voltage of the synchronous generator.

Ans

- X 1. 40 Hz
- X 2. 50 Hz
- X 3. 25 Hz
- √ 4. 60 Hz

Question ID : 8161618275 Status : Not Answered

Chosen Option: --

Q.76 Flux density is quantified in terms of:

Ans

- **X** 1. Wb-m
- × 2. Wb
- X 3. Wb-m²
- √ 4. Wb/m²

Question ID : 8161618230 Status : Answered Chosen Option : 4 Q.77 is the physical property of an element or device that impedes the flow of current. Ans Resistance X 2. Voltage X 3. Power X 4. Conductance Ouestion ID: 8161618221 Status: Answered Chosen Option: 1 Q.78 In a DV machines, the distance between two adjacent poles can be defined as: X 1. pole size X 2. armature length ✓ 3. pole-pitch X 4. coil length Question ID: 8161618254 Status: Answered Chosen Option: 3 Q.79 Which motor is preferred for automatic drives? Ans X 1. Three-phase induction motor ✓ 2. Ward Leonard controlled DC motors X 3. Single-phase induction motor X 4. Synchronous motor Question ID: 8161618306 Status: Answered Chosen Option: 2 Q.80 Select the INCORRECT option with respect to repulsion type motor. X 1. Commutator is used X 2. One stator winding ✓ 3. Rotor similar to squirrel cage induction motor. X 4. A set of brushes used Question ID: 8161618263



Status: Answered

Q.81 The average EMF per conductor in an alternator is:

Ans
$$\times$$
 1. $2\pi f \phi V$

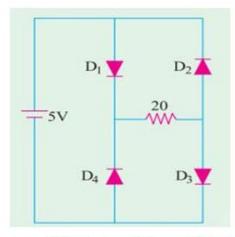
$$\times$$
 2. 2.2 $f \phi V$

$$\times$$
 3. $\frac{2}{\pi} f \phi V$

Question ID: 8161618271 Status: Answered

Chosen Option: 2

Q.82 With respect to the given diode network, select the correct statement.



Ans

1 Diodes 2 and 4 are ON and diodes 1 and 3 are OFF.

2. Diodes 1 and 4 are ON and diodes 2 and 3 are OFF.

3. Diodes 1 and 3 are ON and diodes 2 and 4 are OFF.

X 4. Diodes 1 and 2 are ON and diodes 3 and 4 are OFF.

Question ID: 8161618309 Status: Not Answered

Chosen Option: --

Q.83 The ground wire is used to:

X 1. give good regulations

X 2. avoid overloading

connect a circuit conductor or other device to an earth plate

X 4. give support to the towers

Question ID: 8161618288 Status: Answered

Q.84 Whenever closed conduits are used in a hydroelectric power plant, _____ is/are used to limit the abnormal pressure in the conduit

Ans

- 1 penstocks
- √ 2. surge tank
- X 3. headworks
- X 4. spilways

Question ID : **8161618282** Status : **Answered**

Chosen Option: 2

Q.85 What is the mathematical expression for a 50 Hz sinusoidal voltage of peak value 100 V?

Ans

- \times 1. $\frac{100}{\sqrt{2}}\sin 100 \pi t \text{ V}$
- $\sqrt{2.100} \sin 100 \pi t \text{ V}$
- \times 3. 50 sin 100 π t V
- \times 4. $\frac{100}{\sqrt{2}}\sin 50 \ t \ V$

Question ID : 8161618242 Status : Answered

Chosen Option: 2

Q.86 Electrical instruments which directly indicate the value of the electrical quantity at the time when it is being measured are called:

Ans

- X 1. secondary instruments
- × 2. integrating instruments
- X 3. recording instruments
- ✓ 4 indicating instruments

Question ID : 8161618245 Status : Answered

Chosen Option: 4

Q.87 Consider a coil rotating at a speed of *N* rpm in the field of *P* poles. As the coil moves past successive north and south poles, one complete cycle is generated. What is the frequency of the generated voltage?

Ans

- \times 1. $\frac{PN}{60}$
- √ 2.

 PN

 120
- \times 3. $\frac{120 P}{N}$
- \times 4. $\frac{120 \, f}{p}$

Question ID : 8161618240 Status : Answered Chosen Option : 2



Q.88 What is the EMF generated per path in a simplex wave-wound DC generator?

Ans

$$\times$$
 1. $\frac{\phi ZN}{60P}$ V

$$\times$$
 2. $\frac{\phi ZPN}{60}$ V

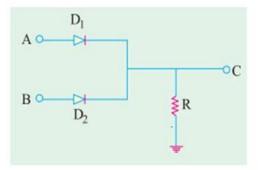
$$\times$$
 3. $\frac{\phi ZN}{120P}$ V

$$\checkmark$$
 4. $\frac{\phi ZPN}{120}$ V

Question ID: 8161618257

Status : **Answered** Chosen Option : **4**

Q.89 Which of the following logical operations could be computed by the given network?



Ans

$$X \cdot C = AB$$

$$\checkmark$$
 2. $C = A + B$

$$X$$
 3. $C = \overline{AB}$

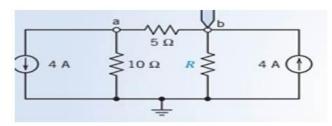
$$\times$$
 4. $C = \overline{A + B}$

Question ID : 8161618311

Status: Not Answered

Chosen Option : --

Q.90 Determine the resistance R in the given circuit, if the voltage at node-b is $V_b=5\,$ V.



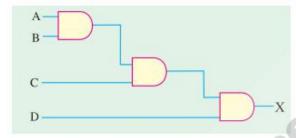
Ans

- X 1. 8 Ω
- Χ 2. 2 Ω
- **√** 3. 5 Ω
- X 4. 4 Ω

Question ID: 8161618227 Status: Not Answered

Chosen Option: --

Q.91 Determine the logical operation of the given circuit.



Δns

- $X = \overline{A + B + C + D}$
- $X = \overline{ABCD}$
- X = A + B + C + D
- \checkmark 4. X = ABCD

Question ID: 8161618312

Status : **Answered**

Chosen Option : 4

Q.92 A diesel power station has fuel consumption of 0·215 kg per kWh, the calorific value of fuel being 10,000 kcal/kg.
Determine the overall efficiency.

Ans

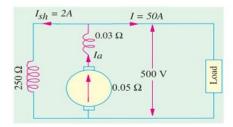
- 1. 40%
- X 2. 30%
- X 3. 45%
- X 4. 55%

Question ID: 8161618283

Status: Not Answered

Chosen Option : --

Q.93 The voltage and current in various branch in a long-shunt compound generator is given in the following network.
Determine the generated EMF.



Ans

- X 1. 510 V
- X 2. 502.2 V
- ✓ 3. 504.16 V
- X 4. 512.2 V

Question ID: 8161618259

Status: Answered

Chosen Option: 3

Q.94 A 60 W light bulb has a current of 0.5 A flowing through it. Calculate the number of electrons passing through a cross-section of the filament.

Ans

- \times 1. $\approx 3.1 \times 10^{-18}$ electrons/min
- \checkmark 2. $\approx 3.1 \times 10^{18}$ electrons/s
- \times 3. $\approx 3.1 \times 10^{-18}$ electrons/s
- \times 4. $\approx 3.1 \times 10^{18}$ electrons/min

Question ID: 8161618217

Status: Not Answered

Chosen Option: --

Q.95 A LVDT produces an RMS output voltage of 2.6 V for displacement of 0.4 µm. Calculate the sensitivity of LVDT.

Ans

- √ 1. 6.5 V/μm
- × 2. 4.5 V/μm
- × 3. 8.5 V/μm
- × 4. 12.5 V/μm

Question ID: 8161618249

Status: Answered



Q.96 The rotor of a single phase induction motor is running at N rpm, what is the slip with respect to forward rotating flux?

Ans

$$\times$$
 1. $\frac{N}{N_S}$

$$\checkmark$$
 2. $(N_s - N)/N_s$

$$\times$$
 3. $(N+N_s)/N_s$

$$\times$$
 4. $(N-N_s)/N_s$

Question ID : **8161618261**Status : **Answered**Chosen Option : **2**

Q.97 A 8-kW, 4-pole, 220-V, 50-Hz reluctance motor has a torque angle of 30° when operating under rated load conditions. Calculate the load torque.

Ans

- ✓ 1. 51 Nm
- X 2. 4.3 Nm
- X 3. 43 Nm
- X 4. 5.1 Nm

Question ID : 8161618267 Status : Not Answered

Chosen Option: --

Q.98 How to extract maximum torque in a single phase repulsion type motor?

Ans

The angle between brush axis and stator field axis must be equal to 180°.



The angle between brush axis and stator field axis must be equal to 0° .



The angle between brush axis and stator field axis must be equal to 90°.



The angle between brush axis and stator field axis must be equal to 45° .

Question ID : **8161618268**Status : **Answered**Chosen Option : **3**

Q.99 set(s) of positive and negative values of an alternating quantity is/are known as a cycle.

Ans

X 1. Three complete

✓ 2. One complete

X 3. Two complete

X 4. Four complete

Question ID: 8161618238 Status: Answered Chosen Option: 2 Q.100 Which of the following types of instruments is used only in DC measurements?

- (a) PMMC type
- (b) Dynamometer type
- (c) Shaded-pole type
- (d) Electrolytic meter

Ans

- √ 1. (a) and (d)
- × 2. (b) and (c)
- X 3. (a) and (c)
- X 4. (a) and (b)

Question ID : **8161618247** Status : **Answered**

