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Electrical: 2017
Official Paper
(English)

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200 Questions

Que. 1 Which is the largest bauxite producing state in India?

1. Uttarakhand
 2. West Bengal
 3. Himachal Pradesh
 4. Orissa
-

Que. 2 Which is the world's largest lake (by surface area)?

1. Lake Huron
 2. The Caspian Sea
 3. Lake Victoria
 4. Lake Superior
-

Que. 3 Which is the capital city of Telangana?

1. Vijayawada
 2. Amaravati
 3. Hyderabad
 4. Karim Nagar
-

Que. 4 Who was the acting Governor of Tamil Nadu in September 2017?

1. Konijeti Rosaiah
 2. Sardar Surjit Singh Barnala
 3. CH. Vidyasagar Rao
 4. O. Panneerselvam
-

Que. 5 Who among the following is the ex-officio Chairperson of Rajya Sabha (Council of States)?

1. President of India
 2. Vice President of India
 3. Prime Minister of India
 4. Speaker of Lok Sabha
-

Que. 6 Amir Khan's recent film 'Dangal' is inspired by the real-life story of:

1. Dara Singh
 2. Mahavir Singh Phogat
 3. Sushil Kumar Solanki
 4. Sakshi Malik
-

Que. 7 Who was the teacher of Chandragupta maurya?

1. Ashoka the Great
2. Skanda gupta
3. Vishnu Sharma
4. Chanakya

Que. 8 Where is the “Dead Sea” located?

1. Between Iraq and Iran
2. Between Syria and Lebanon
3. In Saudi Arabia
4. Between Israel and Jordan

Que. 9 What is the S.I. unit of work?

1. Metre
2. Joule
3. Newton
4. Second

Que. 10 Raziya Sultan was the ruler of _____.

1. Bijapur
2. Delhi
3. Hyderabad
4. Punjab

Que. 11 Which of the following planets rotates in the clockwise direction?

1. Venus
2. Mars
3. Jupiter
4. Saturn

Que. 12 What does ICICI in ICICI Bank stands for?

1. Infrastructure Creation and Investment Company of India
2. Industrial Credit and Infrastructure Corpus of India
3. Industrial Credit and Investment Corporation of India
4. Investment Corporation for Industrial Credit in India

Que. 13 If we suspend a magnet freely, it will settle in _____.

1. North-East direction
2. East-South direction
3. East-West direction

4. North-South direction

Que. 14 Who is the current Managing Director of the International Monetary Fund (IMF)?

1. Tao Zhang
2. David Lipton
3. Kristalina Georgieva
4. Christine Lagarde

Que. 15 Which is the ultimate source of energy on Earth?

1. Coal
2. Wind
3. Sun
4. Petroleum

Que. 16 Who among the following sportspersons is NOT one of the Padma Shri awardees for the year 2017?

1. Vikas Gowda
2. Dipa Karmakar
3. Shikhar Dhavan
4. Sakishi Malik

Que. 17 Who is the current chief of the Indian Army Staff?

1. Dalbir Singh Suhag
2. Lt Gen PM Hariz
3. General Bipin Rawat
4. General Praveen Bakshi

Que. 18 The Ministry of Urban Development, Government of India, launched the HRIDAY scheme on 21st January, 2015, with a focus on holistic development of heritage cities. What does HRIDAY stands for?

1. Heritage Region Development Yojana
2. Hindu Pilgrimage Development Association Yojana
3. Hindu Religious Destinations Augmentation Yojana
4. Heritage City Development and Augmentation Yojana

Que. 19 According to Article _____ of the Indian Constitution, "The official language of the union shall be Hindi in Devanagari Script".

1. 350B
 2. 368
 3. 370
 4. 343
-

Que. 20 India won the 2016 Kabaddi World Cup (Men) by defeating?

1. Thailand
2. South Korea
3. Pakistan
4. Iran

Que. 21 Which is the longest (or largest) Constitutional amendment act known as 'Mini Constitution'?

1. 12th Amendment
2. 44th Amendment
3. 42nd Amendment
4. 86th Amendment

Que. 22 Who is the current Comptroller and Auditor General (CAG) of India?

1. Mukul Rohatgi
2. Shashikant Sharma
3. Vinod Rai
4. V. N. Kaul

Que. 23 Who founded the Bahmani Sultanate?

1. Muhammad bin Tughluq
2. Alauddin Bahman Shah (also known as Hassan Gangu)
3. Firoz Shah Bahmani
4. Mir Jafar

Que. 24 Who received the Jnanpith Award for the year 2016?

1. Raghubir Chaudhary
2. Nasira Sharma
3. Shankh Ghosh
4. Majhasweta Devi

Que. 25 On 1 January 2017, who assumed the post of Secretary-General of the United Nations?

1. Cristalina Georgievia
2. Shashi Tharoor
3. Ban Ki-moon
4. Antonio Guterres

Que. 26 If the sum of 2 numbers is 165, their LCM is 1300 and HCF is 5. Then the difference between 2 numbers is;

1. 20
2. 30

3. 35
4. 25

Que. 27 The number of terms in the sequence 5, 20, 80, 320, _____, 20480 is:

1. 6
2. 8
3. 7
4. 9

Que. 28 In a biogas plant the population of yeast bacteria at a rate of 4% per annum, but there is an additional annual increase of 1% in population due to various other inputs in the system. The percentage increase in the yeast population after 2 years is:

1. 10.25%
2. 10.20%
3. 10.52%
4. 10.30%

Que. 29 The average of 7 numbers is 30. The average of first three of them is 23 and the last three of them is 42. Then the fourth number is:

1. 15
2. 25
3. 20
4. 10

Que. 30 A flight has to travel between 2 cities A and B. 1200 km apart. The flight was slowed down due to bad weather. Its average speed for the trip reduced by 200 km/hr and the time of flight increased by 30 min. The duration of the flight with original speed is:

1. 1.75 hrs
2. 1.5 hrs
3. 1.6 hrs
4. 1.25 hrs

Que. 31 The number of terms in the sequence 20, 25, 30, _____, 140 is:

1. 25
2. 26
3. 22
4. 23

Que. 32 If three sides of the triangle are given 12 cm, 16 cm and 20 cm. Then the area of triangle is:

1. 96 cm^2
2. 90 cm^2

3. 36 cm^2
4. 95 cm^2

Que. 33 Ms, Smita invests Rs. 2000 for six months at 20% per annum compounded quarterly, the total amount she gets after 6 months is:

1. Rs. 2200
2. Rs. 2250
3. Rs. 2205
4. Rs. 2210

Que. 34 Pipe A can fill the tank 4 times faster than pipe B, if pipe A and B together fill the tank in 28 minutes. Then pipe B alone can fill the tank in:

1. 145 minutes
2. 150 minutes
3. 140 minutes
4. 130 minutes

Que. 35 A train 130 meters long travelling at 72 km/hr crosses the bridge in 30 sec. Then the length of the bridge is:

1. 475 meters
2. 425 meters
3. 460 meters
4. 470 meters

Que. 36 Mr. Raj divides Rs. 1573 such that 4 times the 1st share, thrice the 2nd share and twice the third share amount to the same. Then the value of the 2nd share is:

1. Rs. 484
2. Rs. 480
3. Rs. 844
4. Rs. 448

Que. 37 In a chemistry lab two beakers A and B contains 62.5% and 87.5% of spirit respectively. If two litres from A is mixed with 4 litres of B. The ratio of spirit and water in the resulting mixture is:

1. 19 : 7
2. 19 : 6
3. 19 : 8
4. 19 : 5

Que. 38 Mr. Kamal rows a boat with the stream at 16 km/hr and against the stream in 8 km/hr. In still water, his rate of rowing is km/h is:

1. 15

2. 11
3. 10
4. 12

Que. 39 If x_1 and x_2 are the roots of the equation $2x^2 + 5x + 2 = 0$, then the equation which has the roots $\frac{1}{x_1}$ and $\frac{1}{x_2}$ is:

1. $3x^2 - 5x - 2 = 0$
2. $2x^2 + 5x + 2 = 0$
3. $-2x^2 + 5x + 2 = 0$
4. $3x^2 + 5x - 2 = 0$

Que. 40 If 2 is added to the denominator of a rational number, It becomes $\frac{1}{2}$ and if 34 is added to the numerator it becomes $\frac{1}{4}$. Then the sum of the numerator and the denominator of the rational number is:

1. -207
2. 110
3. -101
4. -209

Que. 41 An army of 1500 men has provision for 50 days. After 10 days due to injuries some of them left and the food were now enough next 50 days for remaining men. The number of men left is:

1. 300 men
2. 310 men
3. 200 men
4. 250 men

Que. 42 If y exceeds x by 30% then x is less than y by what percent?

1. $23\frac{1}{13}$
2. $22\frac{1}{13}$
3. $24\frac{1}{12}$
4. $21\frac{1}{13}$

Que. 43 Find x, given $5^{x+4} = (\sqrt{5})^{3x+7}$

1. $x = 1$
2. $x = -1$
3. $x = -2$
4. $x = 0$

Que. 44

Mr. Shiva invested equal amount of money in two private firms which gives 15% simple interest per annum for 3.5 years and 5 years respectively. If The difference in their interests is Rs. 225. The amount invested by Mr. Shiva is:

1. Rs. 1050
2. Rs. 1005
3. Rs. 1000
4. Rs. 2000

Que. 45 A can finish the work in 15 days and B in 30 days. They both work together for 5 days and then B leaves. How many days will A take to complete the remaining work?

1. 7.75 days
2. 7 days
3. 7.5 days
4. 7.45 days

Que. 46 If $-3 \leq x \leq 4$ and, $2 \leq y \leq 3$, then the minimum value of $2y - 3x$ is:

1. -8
2. -10
3. -9
4. -5

Que. 47 For a positive integer n, $3^{4n} - 4^{3n}$ is divisible by.

1. 71
2. 21
3. 17
4. 1

Que. 48 Due to economic surges the price of eggs suddenly reduced by 40%. This enabled a woman to buy 64 more for \$ 60. Then the reduced price per dozen is:

1. \$ 4.4
2. \$ 4.1
3. \$ 4
4. \$ 4.5

Que. 49 The total number of factors of $2^5 \times 3^3 \times 5^2$ excluding one and itself is:

1. 28
2. 30
3. 72
4. 70

Que. 50

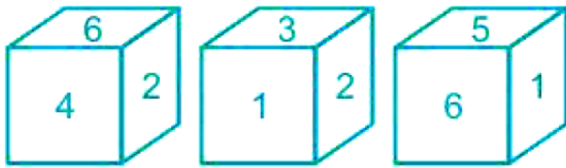
The curved surface area of a hemisphere is $32\pi \text{ cm}^2$, then its radius is:

1. 3 cm
2. 2 cm
3. 4 cm
4. 6 cm

Que. 51 Devendra travels 3 km towards west from his house. He turns to his left and walks 5 km, then turns to his right and walks 3 km, then again runs to his right and walks 5 km. Finally, Devendra turns left and stops after walking 1 km. How far and in which direction is he from the starting point?

1. 7 km East
2. 7 km West
3. 9 km North
4. 9 km South

Que. 52 Three position of a cube are shown below. Which number will be opposite to the face containing 5?



1. 4
2. 3
3. 6
4. 2

Que. 53 Identify the word which belongs to the class of given words.

Orange, Violet, yellow

1. Pink
2. Purple
3. White
4. Blue

Que. 54 Select one option which is different from the other three.

1. VEWD
2. TGVF
3. RISH
4. XCYB

Que. 55 Four sets of three statements are given below. Suppose these statements are true even if they differ from known facts. Select the option in which the third statement follows the first two statements.

1. All foxes are wild. All jackals are wild. Therefore, all jackals are foxes.
2. All fruits are leaves. All flowers are fruits. Therefore, all flowers are leaves.

3. All pens are pencils. All rubber are pens. Therefore, all pencils are erasers.
4. All buses are roads. All cars are buses. Therefore, all roads are cars.

Que. 56 Which of the answer figure is exactly the mirror image of the question figure, when the mirror is held on the line X Y?



- 1.
- 2.
- 3.
- 4.

Que. 57 Find the missing number from the given alternatives.



1. 33
2. 66
3. 17
4. 64

Que. 58 Vaibhav is elder by 3 years to Rohit. After 10 years Vaibhav will be thrice his present age and Rohit will be six time of his present age. How old is Rohit?

1. 2 years
2. 3 years
3. 4 years
4. 5 years

Que. 59 From the given alternatives select the word which cannot be formed using the letters of the given words.

ADMINISTRATION

1. TRADITION
2. MINISTER
3. STRAD
4. STORM

Que. 60 Some equations are solved on the basis of a certain system. Find the correct value of '?' on that basis.

$$14 * 13 = 128$$

$$16 * 13 = 280$$

$$15 * 11 = ?$$

1. 516
2. 156
3. 615
4. 165

Que. 61 Choose the correct alternative that will complete the given number series.?

6, 15, 40, 113, ?, 979

1. 330
2. 223
3. 286
4. 311

Que. 62 Govind is taller than Rajesh and Dinesh. Avinash is not as tall as Dinesh. Rajesh is taller than Avinash. Govind is not as tall as Sohan. Who is the second longest of all this?

1. Govind
2. Avinash
3. Dinesh
4. Sohan

Que. 63 Six friends are sitting in a circle facing the center. Pramod is to the left of Vinod. Tushant is between Pramod and Mayank. Jignesh is in between Vinod and Nitin. Who is to the left of Mayank?

1. Vinod

2. Nitin
3. Pramodh
4. Tushant

Que. 64 Select the related letters from the given alternatives.
EJOT : VQLG :: CHMR :?





1. XSNI
2. Y TOK
3. JNSX
4. XSNJ

Que. 65 Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

m c _ b c m _ c b b c _ m _ b b c m

1. b m m c
2. m c c b
3. c b m b
4. b c m b

Que. 66 Identify the diagram that best represents the relationship among classes given below.
Brinjal, Banana, Vegetables

1. 
2. 
3. 
4. 

Que. 67 Select the related number from the given alternatives.
? : 65 :: 08 : 28

1. 12
2. 9

3. 15
4. 18

Que. 68 In a row of boys facing north, Kamal is sixth from the left end and Bipin is seventh from the right end. In the row, Ratan, who is fourth from the right of Kamal, is fifth from the left of Bipin. How many boys are there in this row?

1. 20
2. 19
3. 22
4. 21

Que. 69 Just as 'defeat' is related to 'victory', in the same way what is related to 'despair'?

1. hatred
2. Hope
3. love
4. Insult

Que. 70 Find the odd number pair from the given alternatives.

1. 28 : 8
2. 84 : 24
3. 49 : 14
4. 42 : 6

Que. 71 In a certain code language SISTER is written as RJRUDS. How would CARPET be written in that code language?

1. BBQQFS
2. DBSQFU
3. BBQQDU
4. TEPRAC

Que. 72 How many triangles are there in the following figure?



1. 20

2. 23
3. 29
4. 15

Que. 73 If ‘+’ means ‘division’, ‘-’ means ‘plus’, ‘×’ means ‘subtraction’ and ‘÷’ means ‘multiplication’, then what is the value of $13 - 4 \div 5 \times 63 + 9 = ?$

1. 38
2. 25
3. 26
4. 22

Que. 74 J’s father R is N’s paternal uncle. M’s husband L is J’s only paternal uncle. How is M related to N?

1. Sister
2. Mother
3. Cousin
4. Aunt

Que. 75 Select the figure from the alternatives which will complete the pattern in the given question figure.



- 1.
- 2.
- 3.
- 4.

Que. 76 Select the word that best expresses the meaning of the given word.
COHERENT

1. Logical
2. Affiliated
3. Convincing

4. Rambling

Que. 77 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

The child threw himself on the bed and pulled a blanket at his face.

1. threw
2. pulled
3. on the bed
4. at his face

Que. 78 Select the appropriate phrase that completes the sentence CORRECTLY.

He is so rude that it is difficult to _____ with him

1. get on
2. get out
3. get up
4. get away

Que. 79 Select the option that completes the sentence CORRECTLY.

Whilst one group was busy cooking, the other _____ wood for the compfire.

1. collected
2. will collect
3. is collecting
4. has collected

Que. 80 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

He must have been the very strong man to fight a tiger.

1. the
2. very strong
3. must
4. to fight

Que. 81 Select the word that best expresses the meaning of the given word.

DEVOUR

1. Assign
2. Despise
3. Consume
4. Design

Que. 82 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

You don't have to stay with me unless it bothers you.

1. don't have to
2. it
3. with
4. unless

Que. 83 Select the word that best expresses the meaning of the given word.

EXOTIC

1. Thorough
2. Excessive
3. Familiar
4. Unusual

Que. 84 Select the word that is spelled INCORRECTLY.

1. Intolrent
2. Intoxicate
3. Intricate
4. Intimate

Que. 85 Select the appropriate phrase that completes the sentence CORRECTLY.

In view of the situation in his country, he had to _____ his departure for an indefinite time.

1. put through
2. put in
3. put out
4. put off

Que. 86 Select the word that is spelled INCORRECTLY.

1. Outlet
2. Outline
3. Outfit
4. Outflo

Que. 87 Select the ANTONYM of the given word.

COINCIDE

1. Disappear
2. Disappoint
3. Disbelieve
4. Disagree

Que. 88 Find the appropriate meaning of the underlined idiom.

When he was speaking, his father cut him off.

1. disinherited him
2. rebuked him
3. isolated him
4. interrupted him

Que. 89 Select the option that completes the sentence CORRECTLY.

_____ she was not well, I offered to help her.

1. Although
2. Since
3. Wherever
4. However

Que. 90 Select the ANTONYM of the given word.

LAVISH

1. Laudable
2. Meagre
3. Liberal
4. Excessive

Que. 91 In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the INCORRECT word or phrase from the given options.

The poet dreams of a world where men have not scorn other men.

1. other men
2. where
3. have not scorn
4. dreams

Que. 92 Select the ANTONYM of the given word.

OPPRESSIVE

1. Voluntary
2. Wise
3. Humane
4. Prosperous

Que. 93 Select the option that completes the sentence CORRECTLY.

I haven't met Mr. Kapoor _____ January.

1. from
2. between
3. since
4. for

Que. 94 Select the option that completes the sentence CORRECTLY.

Mrs. Vyas is very much interested in classical music. So she _____ like to attend the concert.

1. may
2. must
3. will
4. can

Que. 95 Select the word that is spelled INCORRECTLY.

1. Rejoice
2. Relapes
3. Release
4. Regulate

Que. 96 Read the following passage and answer the given questions.

If we walk back to the past, sensitivity to the torture of any kind is a rather contemporary phenomenon, showing up first in the 19th century. Till then, worldwide, the torture of both humans and animals was accepted as normal.

During 1807-50, as if making up for past injustices, our collective consciousness suddenly woke up to ethically question the torture of all living beings. Around this time, in Britain for example, slave trade was abolished, the 1832 Reform Act was passed, and bear-baiting, even dog fights, became illegal.

With the increase in democratic awareness, we also became mindful of animal life. 19th-century attitudes were inclined towards accepting humans and animals as somewhat continuous creations. Therefore, what applied to us was now being extended to include other living creatures too.

Again, it was in the mid-19th century that the hangman's rope was lengthened so that death would be quick; the earlier short drop left the condemned person dangling for long. Crucifixion and stoning were no longer considered civilized.

All of this is off the charts today, but in my past, it was seen as normal, even fun. Though we still continue with capital punishment, yet we strive to make it as pain-free as modern medical knowledge will allow - enter the lethal injection. No more howling and cheering from a frenzied crowd; the sentence is now delivered within prison confines.

All these changes have happened in recent times as old fashioned torture is no longer acceptable. Humans and beasts, individually and singly, are not to be put in pain, and if they have to die because we must punish, or we must eat, let us deliver the blow as softly as we can. Yet, when man and beast are performing together in acts that involve pain, sometimes death, there has been much stronger resistance against banning them. This is true of Jallikattu and the bullfight. Jallikattu is a popular sport that has become culture as it pits men against bulls. The Spanish bullfight also have always been a spectacular public sport. It is almost as if we are compelled to demonstrate our mastery over nature at regular intervals.

Which of these is NOT a civilized way of putting someone to death?

1. delivering a death sentence within the prison
2. hanging with a long rope
3. giving a lethal injection
4. hanging with a short rope

Que. 97 Which of these is NOT an example of Britain's awakening consciousness?

1. Declaring dog fights illegal
2. Lethal injection
3. Abolition of slave trade
4. Banning bear baiting

Que. 98 The writer's tone in the passage is that of sarcasm.

Which sentence depicts it most predominantly?

1. And if they have to die because we must punish, or we must eat, let us deliver the blow as softly as we can
2. As if making up for past injustices, our collective consciousness suddenly woke up to ethically question the torture of all living beings.
3. Though we still continue with capital punishment, yet we strive to make it as pain free as modern medical knowledge will allow.
4. It is almost as if we are compelled to demonstrate our mastery over nature at regular intervals.

Que. 99 What is a contemporary phenomenon according to the passage?

1. banning of torture
2. acceptance of torture
3. insensitivity towards torture
4. condemnation of torture

Que. 100 The passage:

1. makes a case for Jalikattu and bullfight as cultural events
2. describes various kinds of tortures used through the ages
3. stresses the changing attitude towards inflicting pain on humans and animals
4. explains why there is a resistance against banning sports involving man and beast

Que. 101 Match list I (Fourier series and Fourier transform) with list II (their properties) and select the answer using codes given below:

List I	List II
A. Fourier series	1. Discrete and periodic
B. Continuous Fourier transform	2. Continuous and Periodic
C. Discrete time Fourier series	3. Continuous and Aperiodic

1. A – 2, B – 3, C - 1
2. A – 3, B – 2, C - 1
3. A – 1, B – 3, C - 2
4. A – 2, B – 1, C - 3

Que. 102

_____ A coil of 300 turns is wound on a non-magnetic core having a mean circumference of 300 mm and a cross-sectional area of 300 mm^2 . The inductance of the coil corresponding to a magnetizing current of 3A will be (Given $\mu_0 = 4\pi \times 10^{-7} \text{ H/m}$).

1. 113.04 μH
2. 113.04 mH
3. 37.68 μH
4. 37.68 mH

Que. 103 The materials used for permanent magnets should have:

1. Low retentivity, low coercivity
2. High retentivity, low coercivity
3. High retentivity, high coercivity
4. Low retentivity, high coercivity

Que. 104 The purpose of providing dummy coils in a generator is

1. to enhance flux density
2. maximise voltage drop
3. to provide mechanical balance for the rotor
4. to reduce copper loss

Que. 105 The type zero system with step input has:

1. high gain constant
2. large steady-state error with high gain constant
3. finite steady-state error
4. zero steady-state error

Que. 106 A buck regulator has an input voltage of 12 V and the required output voltage is 5 V. What is the duty cycle of the regulator?

1. $5/12$
2. $12/5$
3. $5/2$
4. 6

Que. 107 The area under a load curve gives

1. Maximum demand
2. Average demand
3. Energy consumed
4. Minimum demand

Que. 108 Which starting method is not used in squirrel cage induction motors?

1. Star delta starting
2. Resistance in stator circuit
3. Auto transformer starting
4. Resistance in rotor circuit

Que. 109 A light-activated thyristor can be used as:

1. Amplifier
2. Oscillator
3. Switch
4. Filter

Que. 110 Domestic consumer load is around:

1. 5 kW
2. 40 kW
3. 120 kW
4. 80 kW

Que. 111 RMS value of a current given by $i = 10 + 5 \cos(628t + 30^\circ)$ is:

1. 3.53 A
2. 10.6 A
3. 15.6 A
4. 5 A

Que. 112 The equation for 25 cycles current sine wave having an rms value of 30 amperes, will be:

1. $42.42 \sin 25\pi t$
2. $42.42 \sin 50\pi t$
3. $30 \sin 25t$
4. $30 \sin 50t$

Que. 113 A single-phase distribution transformer rated 10 kVA, 2400/240 V, 60 Hz has characteristics: core loss at full voltage is 100 W and copper loss at half load is 60 W. What is the efficiency of the transformer when it delivers full load at lagging power factor of 0.8?

1. 93.92%
2. 94.95%
3. 92.95%
4. 95.92%

Que. 114 In moving coil instruments, scale used is

1. linear scale
2. bilinear scale
3. rectangular scale

4. non linear scale

Que. 115 A power MOSFET is a

1. Current controlled device
2. Voltage controlled device
3. Both voltage controlled and current controlled device
4. None of the options

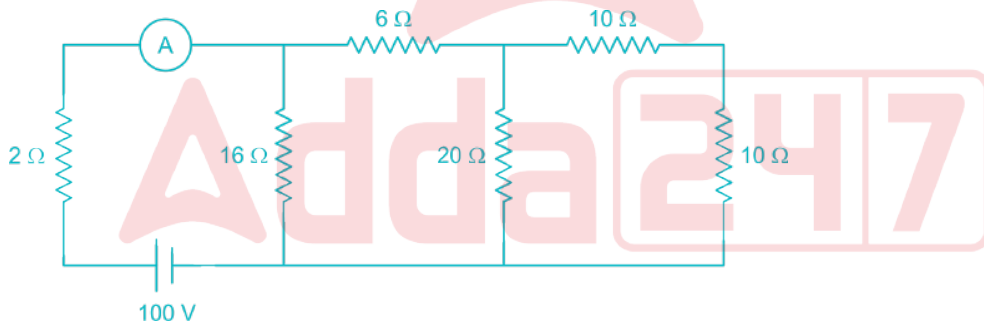
Que. 116 In a biased differential relay the bias is defined as ratio of

1. Number of turns of restraining and operating coil.
2. Operating coil current and restraining coil current.
3. Fault current and operating coil current.
4. Fault current and restraining coil current.

Que. 117 Fusing factor of a fuse is defined as the ratio of:

1. Minimum fusing current to the rated carrying current
2. Maximum fusing current to the cut off current
3. Maximum fusing current to the prospective current
4. Maximum fusing current to the rated carrying current

Que. 118 For the circuit shown in the figure, the ammeter will read _____



1. 20 A
2. 1 A
3. 10 A
4. 100 A

Que. 119 What is the resonance frequency ω_0 in a practical parallel resonant circuit (coil in parallel with capacitor) with coil resistance 1Ω , inductance 1 H and $c = 1/4 \text{ F}$?

1. 2 Hz
2. $\sqrt{3} \text{ rad/s}$
3. 2 rad/s
4. $2\sqrt{\frac{3}{4}} \text{ Hz}$

Que. 120 To avoid cogging in induction motor, the number of stator slots should not be ____ the number of rotor slots.

1. Equal to
2. Greater than
3. Less than
4. Dependent on

Que. 121 Which of the following device is commonly used for lightening protection?

1. ZnO Varistor
2. Over voltage relay
3. Isolator
4. Circuit breaker

Que. 122 Which of the following instrument is not affected by hysteresis and eddy current errors?

1. Moving iron
2. Electrostatic
3. Dynamometer type moving coil
4. Permanent magnet moving coil

Que. 123 A Schottky diode is a

1. Both majority and minority carrier diode
2. Majority carrier device
3. Minority carrier device
4. Fast recovery diode

Que. 124 Multi-meters cannot be used to measure

1. Voltage
2. Resistance
3. Frequency
4. Current

Que. 125 A second-order servo has unity feedback and an open-loop transfer function: $G(s) = 500/s(s + 15)$. The settling time is:

1. 2 sec
2. 0.53 sec
3. 500 sec
4. 0.5 sec

Que. 126 The bus admittance matrix of a power system (with respect to diagonal), has:

1. only value symmetry

2. both position and value symmetry
3. only position symmetry
4. complete asymmetry

Que. 127 A solid sphere made of insulating material has a radius R and has a total charge Q distributed uniformly in its volume. What is the magnitude of the electric field intensity, E , at a distance r ($0 < r < R$) inside the sphere?

1. $\frac{1}{4\pi\epsilon_0} \frac{Qr}{R^3}$
2. $\frac{3}{4\pi\epsilon_0} \frac{Qr}{R^3}$
3. $\frac{1}{4\pi\epsilon_0} \frac{Q}{r^2}$
4. $\frac{1}{4\pi\epsilon_0} \frac{QR}{r^3}$

Que. 128 Which testing method is performed to determine no load losses in DC motors?

1. Brake test
2. Field test
3. Running down test
4. Swinburne's test

Que. 129 The pointer returns to its zero position on removing the source producing the deflecting torque. This happens due to:

1. Balancing torque
2. Damping torque
3. Controlling torque
4. Mass of pointer

Que. 130 The superposition theorem is essentially based on

1. Linearity
2. Duality
3. Reciprocity
4. Non linearity

Que. 131 The A, B, C, D constant of a 220 kV line are : $A = D = 0.94 \angle 1^\circ$, $B = 130 \angle 73^\circ$, $C = 0.001 \angle 90^\circ$. If the sending end voltage of the line for a given load delivered at nominal voltage is 240 kV, the % voltage regulation of the line is

1. 5
 2. 9
 3. 16
 4. 21
-

Que. 132 Two transformers are to be operated in parallel such that they share load in proportion to their KVA ratings. The rating of the first transformer is 500 kVA and its leakage impedance is 0.05 pu. If the rating of the second transformer is 250 kVA then its leakage impedance is

1. 0.05
2. 0.025
3. 0.2
4. 0.1

Que. 133 Find the resistance of an electric heater that absorbs 2400 W when connected to a 120 V supply.

1. 6 Ω
2. 12 Ω
3. 20 Ω
4. 10 Ω

Que. 134 Which law states that “the line integral of the magnetic field intensity H around a closed path is equal to the total current linked by the contour”?

1. Kirchoff’s voltage law
2. Ohm’s law
3. Ampere’s circuit law
4. Kirchoff’s current law

Que. 135 A 3 phase transformer has its primary connected in delta and secondary in star. Secondary to primary turns ratio per phase is 5. What would be the secondary voltage for a primary voltage of 400 V?

1. 3464 V
2. 80 V
3. 2000 V
4. 138 V

Que. 136 Buchholz relay is used to protect

1. Transmission line
2. Generator
3. Transformer
4. Motor

Que. 137 The electric field strength at a distance point, due to a point charge, +q, located at the origin, is $100\mu\text{V/m}$. if the point is now enclosed by a perfectly conducting metal sheet sphere at the point p, outside the sphere becomes:

1. zero
2. $100\mu\text{V/m}$
3. $-100\mu\text{V/m}$
4. $50\mu\text{V/m}$

Que. 138 The rated field current of an alternator is 2A. This alternator is developing 200V at a field current of 1 A at rated speed. If its field current is made 2A at rated speed, then what would be the generated voltage practically considering armature reaction?

1. < 400 V
2. 380 V
3. 400 V
4. > 400 V

Que. 139 The frequency range over which the response of a system is within acceptable limits, the system is called:

1. Modulation frequency
2. Demodulation frequency
3. Carrier frequency
4. Bandwidth

Que. 140 How much is the base-to-emitter voltage of a transistor in the 'ON' state?

1. undefined
2. 0.7 V
3. 0 V
4. 0.7 mV

Que. 141 In the equations given below, which is not the Maxwell's equation?

1. $\nabla \cdot D = \rho_c$
2. $\nabla \times E = -\frac{\partial B}{\partial t}$
3. $\nabla \cdot B = 0$
4. $\text{Div} \left(J + \frac{\partial D}{\partial t} \right) = 0$

Que. 142 The steady state error of a control system can be minimized by:

1. decreasing the gain k
2. increasing the gain k
3. decreasing the natural frequency of the system
4. none of the other options

Que. 143 If the gain in a control system is increased:

1. the roots move away from the zeroes
2. the roots move nearer to the zeroes
3. the roots moves nearer to the open-loop poles
4. the position of the roots is not affected

Que. 144 Which generator is used in megger?

1. Induction generator
2. PMDC generator
3. Synchronous generator
4. Extremely excited DC generator

Que. 145 A Kelvin double bridge is best suited for the measurement of

1. inductance
2. capacitance
3. low resistance
4. high resistance

Que. 146 8085 microprocessors has _____ individual flags during arithmetic and logic operations.

1. 8
2. 16
3. 2
4. 5

Que. 147 To a highly inductive circuit, a small capacitance is added in series, the angle between voltage and current will:

1. Decrease
2. Become indeterminate
3. Increase
4. Remain same

Que. 148 Output of NAND gate is 0, for three inputs when:

1. one of the inputs is 1
2. none of the inputs is 1
3. all the inputs are 1
4. two of the inputs is 1

Que. 149 For a single phase capacitor start induction motor which of the following statements is valid?

1. The capacitor is used for power factor improvement
2. The direction of rotation cannot be changed
3. The direction of rotation can be changed by interchanging the supply terminals
4. The direction of rotation can be changed by reversing the main winding terminals

Que. 150 Zero sequence component is absent in case of following fault.

1. L – L – G
2. L – G
3. L – L

4. All of the above options

Que. 151 Normally the human body resistance in totally wet and dry condition is _____ respectively.

1. 1 k Ω and 1 M Ω
2. 0.1 Ω and 10 k Ω
3. 100 Ω and 1 k Ω
4. 100 Ω and 10 k Ω

Que. 152 Distributed winding and short chording employed in AC machines will result in

1. increase in emf and reduction in harmonics
2. reduction in emf and increase in harmonics
3. increase in both emf and harmonics
4. reduction in both emf and harmonics

Que. 153 CRGO laminations in a transformer are used to minimize:

1. Hysteresis loss
2. Both eddy current and hysteresis losses
3. Ohmic loss
4. Eddy current loss

Que. 154 The protection used for SCR in case of high di/dt is:

1. Parallel capacitor
2. Series inductance
3. Snubber circuit
4. Fast acting fuse

Que. 155 The magnetic field on the axis of a current-carrying polygonal coil will have only a horizontal component parallel to the plane of the coil:

1. it is never possible
2. if the coil is an equilateral triangle
3. if the coil is a parallelogram
4. if the coil is a rhombus

Que. 156 Two magnetic cores A and B made up of materials with relative permeability 300 and 400 respectively have identical physical dimension then _____

1. Reluctance offered by A and B is equal
 2. Cannot be predicted without laboratory test
 3. Reluctance offered by A is more than B
 4. Reluctance offered by B is more than A
-

Que. 157 As we go from generator end towards load, the severity of particular fault:

1. Remains same
2. Decreases
3. Does not depend on location
4. Increases

Que. 158 In an induction motor, the meaning of synchronous wattage means:

1. Shaft output in watts
2. Combined stator and rotor inputs in watts
3. Stator input in watts
4. Rotor input in watts

Que. 159 A two port network N has transmission parameters $\begin{bmatrix} A & B \\ C & D \end{bmatrix}$. The open circuit input impedance of the network at port 1, will be



1. D/C
2. A/C
3. AB/DC
4. AD/BC

Que. 160 In a three phase controlled bridge rectifier with an increase of overlap angle, the output DC voltage

1. decreases
2. increases
3. does not change
4. depends upon load inductance

Que. 161 Norton's theorem when applied to DC circuit results in:

1. A voltage source alone
2. A voltage source with a resistance in series
3. A current source with resistance in parallel
4. A current source alone

Que. 162 Which load flow method is sensitive to initial guess in respect of reliability of convergence of solution?

1. Gauss Seidel method
2. Runge Kutta method
3. Newton Raphson method
4. Gauss elimination

Que. 163 Which of the points below correctly complete(s) the given statement?

The Lissajous patterns help in the measurement of

1. Phase difference between two sine waves only
2. Frequency of one waveform only, if the frequency of other waveform is known
1. Neither 1 nor 2
2. Both 1 and 2
3. Only 1
4. Only 2

Que. 164 A transformer having a turns ratio 1 : 5 and a resistance of 500Ω is connected across the secondary terminals. What is the equivalent resistance for the current flowing in the primary?

1. 20Ω
2. 50Ω
3. 10Ω
4. 100Ω

Que. 165 A circuit contains two unequal resistances in parallel, then:

1. Large current flows in larger value resistance
2. Smaller current flows in smaller value resistance
3. Potential difference across each is same
4. Current is same in both

Que. 166 For an alternating square wave, the form factor is _____

1. 3.14
2. 1.414
3. 1.11
4. 1.00

Que. 167 The Fourier series coefficient of signal $x(t)$ is C_K , then what will be Fourier series coefficient of the signal, $x(0.5t) + x(t - 0.5) + x(-2t)$?

1. $C_K (1 + e^{-j\omega 0.5k}) + C_{-K}$
2. $C_K (2 + e^{-j\omega 0.5k}) + 0.5 C_{-K}$
3. $C_K (1 + e^{-j\omega 0.5k}) + C_K$
4. $C_K (2 + e^{-j\omega 0.5k}) + 0.5 C_K$

Que. 168 Which type of distance relay is not affected by fault arc resistance?

1. Differential
2. Reactance
3. Mho

4. Impedance

Que. 169 The z-transform of a signal is given by $X(z) = \frac{1}{4} \frac{z^{-1}(1-z^{-4})}{(1-z^{-1})^2}$, its final value is

1. 1/4
2. Zero
3. 1
4. Infinity

Que. 170 The sweep generator of a CRO is used to produce:

1. Sinusoidal voltage for the vertical deflection of electron beam
2. Saw tooth voltage for the horizontal deflection of electronic beam
3. Saw tooth voltage for the vertical deflection of electronic beam
4. Sinusoidal voltage for the horizontal deflection of electron beam

Que. 171 In 8085 microprocessor instruction XCHG is:

1. 3-byte instruction
2. 2-byte instruction
3. 5-byte instruction
4. 1-byte instruction

Que. 172 A three-phase synchronous motor connected to ac mains is running at full load and unity power factor. If its shaft load is reduced by half and field current is held constant then its new power factor will be

1. Unity
2. Leading
3. Lagging
4. Dependent on machine parameters

Que. 173 Let A and B be feed-forward and feedback paths in a control system to control the voltage. The overall voltage gain of this closed loop system is:

1. $(1 + AB)/A$
2. $A/(1 + AB)$
3. $(1 + AB)/B$
4. $B/(1 + AB)$

Que. 174 For dynamic equalizing circuit used for series-connected SCRs, the choice of C is based on:

1. rise time characteristics
2. turn-on characteristics
3. turn-off characteristics
4. reverse recovery characteristics

Que. 175 The transfer function of a system is defined as:

1. Laplace transform of the step response
2. Laplace transform of the sinusoidal input
3. Laplace transform of the ramp response
4. Laplace transform of the impulse response

Que. 176 The length of the air gap under the poles of DC machines is not kept uniform so as to:

1. Obtain a suitable main field flux
2. Obtain better cooling
3. Obtain sinusoidal armature mmf wave
4. Minimize the effect of armature mmf on main field

Que. 177 A conducting SCR can be opened by reducing _____ to zero.

1. supply voltage
2. gate voltage
3. gate current
4. anode current

Que. 178 If a system is critically damped and the gain is increased, the system

1. become over damped
2. become underdamped
3. become oscillatory
4. remains critically damped

Que. 179 Which statement BEST describes the operation of a negative-edge-triggered D flip-flop?

1. The Q output is always identical to D input
2. The logic level at the D input is transferred to Q on NGT of CLK
3. The Q output is always identical to the CLK input if the D input is high
4. The Q output is always identical to D input when CLK = PGT

Que. 180 A zero to 300 V voltmeter has an error of 1.2% on full scale deflection. If the true voltage is 30 V then the range of readings on this voltmeter will be:

1. 26.4 V to 33.6 V
2. 20 V to 40 V
3. 24 V to 36 V
4. 29.4 V to 30.6 V

Que. 181 An energy meter is designed to make hundred revolutions of disc 1 unit of energy. Calculate the number of revolutions made by the disc when connected to load carrying 50 A at 230 V and 0.6 pf for

an hour.

1. 575 revolutions
2. 690 revolutions
3. 1150 revolutions
4. 920 revolutions

Que. 182 The main objective of the governor system in power systems for all types of turbines is to control the:

1. Voltage phase angle
2. Reactive power input
3. Voltage magnitude
4. Frequency

Que. 183 An alternating voltage has a frequency of 50 Hz with a peak value of 100 V. In how many seconds after the zero value, the voltage will attain the value of 50 V?

1. 1/300 sec
2. 1/180 sec
3. 1/600 sec
4. 1/360 sec

Que. 184 A DC shunt motor of 200 V, 10.5 A, 2000 rpm has an armature resistance of 0.5Ω and field resistance of 400Ω . It drives a load whose torque is constant at rated motor torque. What is the value of armature current if the source voltage drops to 175 V?

1. 9.7 A
2. 12.4 A
3. 11.4 A
4. 10.7 A

Que. 185 A 10 kW, 400 V, 3 phase induction motor is started with direct on line starter. The motor current and power factor at starting will be _____ respectively

1. 20 A, 0.2
2. 20 A, 0.6
3. 120 A, 0.6
4. 120 A, 0.2

Que. 186 The most suitable material for spring in majority of the measuring instruments, except in low resistance instruments is:

1. Phosphor-bronze
 2. Platinum silver
 3. Hard roller silver
 4. Silicon-bronze
-

Que. 187 The % resistance of a 100 kVA, 5 kV, 5 Ω reactance is given by:

1. 2%
2. 20%
3. 40%
4. 4%

Que. 188 It is desirable to avoid the use of the differentiator in the control system design, because:

1. it develops noise and will saturate the amplifier
2. its size is big
3. none of the other options
4. it is not economical

Que. 189 Preferred motor in electric shaver is:

1. Shaded pole motor
2. Hysteresis motor
3. Reluctance motor
4. Universal motor

Que. 190 In a star delta transmission system the CTs used in differential protection will be connected in:

1. Star connection on both sides of transformer
2. Star connection on star side and delta connection on delta side
3. Delta connection on both sides of transformer
4. Delta connection on star side and star connection on delta side.

Que. 191 The transfer function of a system is given as $\frac{100}{s^2+20s+100}$

The system is:

1. An overdamped system
2. An underdamped system
3. A critically damped system
4. An unstable system

Que. 192 Which gate operation gives high output when only one of its input is high?

1. EX-OR Gate
2. NAND Gate
3. NOR Gate
4. EX-NOR Gate

Que. 193 A coil of 150 turns is linked with a flux of 10 mwb when carrying of 10 A, inductance of the coil is:

1. 1.5 H
2. 15 mH

3. 15 H
4. 0.15 H

Que. 194 A solid in which the atoms are arranged in a regular periodic geometrical pattern is known as:

1. conductor
2. semi-conductor
3. insulator
4. crystal

Que. 195 Which of the following is the main advantage of SMPS over linear power supply?

1. No transformer is required
2. Higher efficiency
3. No filter required
4. Only one stage of conversion

Que. 196 The electric and magnetic fields are

1. Two conflicting phenomenon, one suppressing to each other
2. Two sequential phenomenon, with a retardation effect between the two fields
3. Two parts of one unique phenomenon
4. Two distinctly separate and isolated phenomenon

Que. 197 A modern power semiconductor device that combines the characteristics of BJT and MOSFET is:

1. IGBT
2. GTO
3. FCT
4. MCT

Que. 198 How many 3-line-to-8-line decoders are required for a 1-of-32 decoder?

1. 4
2. 1
3. 8
4. 2

Que. 199 The total charge that has entered circuit element is $q(t) = 0.50(1 - e^{-5t})$ when $t \geq 0$ and $q(t) = 0$ when $t < 0$. Determine the current in this circuit element for $t \geq 0$

1. $i(t) = -0.250e^{-5t}$ A
2. $i(t) = 2.5e^{-5t}$ A
3. $i(t) = -0.50(1 - e^{-5t})$ A
4. $i(t) = -0.50(t + 0.2e^{-5t})$ A

Que. 200 Which of the following does not pertain to the equation $\nabla \cdot B = 0$

1. Magnetic field is solenoidal
2. There are no sinks and sources for magnetic field
3. Magnetic field is perpendicular to the electric field
4. Single magnetic pole cannot exist



200 Questions

Que. 1	Correct Option - 4
Que. 2	Correct Option - 2
Que. 3	Correct Option - 3
Que. 4	Correct Option - 3
Que. 5	Correct Option - 2
Que. 6	Correct Option - 2
Que. 7	Correct Option - 4
Que. 8	Correct Option - 4
Que. 9	Correct Option - 2
Que. 10	Correct Option - 2
Que. 11	Correct Option - 1
Que. 12	Correct Option - 3
Que. 13	Correct Option - 4
Que. 14	Correct Option - 4
Que. 15	Correct Option - 3
Que. 16	Correct Option - 3
Que. 17	Correct Option - 3
Que. 18	Correct Option - 4
Que. 19	Correct Option - 4
Que. 20	Correct Option - 4
Que. 21	Correct Option - 3
Que. 22	Correct Option - 2
Que. 23	Correct Option - 2
Que. 24	Correct Option - 3
Que. 25	Correct Option - 4

Que. 26	Correct Option - 3
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Que. 27	Correct Option - 3
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Que. 28	Correct Option - 1
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Que. 29	Correct Option - 1
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Que. 30	Correct Option - 2
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Que. 31	Correct Option - 1
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Que. 32	Correct Option - 1
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Que. 33	Correct Option - 3
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Que. 34	Correct Option - 3
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Que. 35	Correct Option - 4
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Que. 36	Correct Option - 1
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Que. 37	Correct Option - 4
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Que. 38	Correct Option - 4
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Que. 39	Correct Option - 2
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Que. 40	Correct Option - 4
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Que. 41	Correct Option - 1
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Que. 42	Correct Option - 1
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Que. 43	Correct Option - 1
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Que. 44	Correct Option - 4
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Que. 45	Correct Option - 3
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Que. 46	Correct Option - 1
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Que. 47	Correct Option - 3
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Que. 48	Correct Option - 4
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Que. 49	Correct Option - 4
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Que. 50	Correct Option - 3
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Que. 51	Correct Option - 2
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Que. 52	Correct Option - 4
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Que. 53	Correct Option - 4
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Que. 54	Correct Option - 2
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Que. 55	Correct Option - 2
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Que. 56	Correct Option - 3
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Que. 57	Correct Option - 4
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Que. 58	Correct Option - 1
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Que. 59	Correct Option - 2
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Que. 60	Correct Option - 2
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Que. 61	Correct Option - 1
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Que. 62	Correct Option - 1
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Que. 63	Correct Option - 2
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Que. 64	Correct Option - 1
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Que. 65	Correct Option - 1
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Que. 66	Correct Option - 1
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Que. 67	Correct Option - 3
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Que. 68	Correct Option - 4
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Que. 69	Correct Option - 2
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Que. 70	Correct Option - 4
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Que. 71	Correct Option - 3
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Que. 72	Correct Option - 2
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Que. 73	Correct Option - 3
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Que. 74	Correct Option - 2
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Que. 75	Correct Option - 2
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Que. 76	Correct Option - 1
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Que. 77	Correct Option - 4
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Que. 78	
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Correct Option - 1

Que. 79 Correct Option - 1

Que. 80 Correct Option - 1

Que. 81 Correct Option - 3

Que. 82 Correct Option - 4

Que. 83 Correct Option - 4

Que. 84 Correct Option - 1

Que. 85 Correct Option - 4

Que. 86 Correct Option - 4

Que. 87 Correct Option - 4

Que. 88 Correct Option - 4

Que. 89 Correct Option - 2

Que. 90 Correct Option - 2

Que. 91 Correct Option - 3

Que. 92 Correct Option - 3

Que. 93 Correct Option - 3

Que. 94 Correct Option - 3

Que. 95 Correct Option - 2

Que. 96 Correct Option - 4

Que. 97 Correct Option - 2

Que. 98 Correct Option - 2

Que. 99 Correct Option - 4

Que. 100 Correct Option - 3

Que. 101 Correct Option - 1

Que. 102 Correct Option - 1

Que. 103 Correct Option - 3

Que. 104



	Correct Option - 3
Que. 105	Correct Option - 3
Que. 106	Correct Option - 1
Que. 107	Correct Option - 3
Que. 108	Correct Option - 4
Que. 109	Correct Option - 3
Que. 110	Correct Option - 1
Que. 111	Correct Option - 2
Que. 112	Correct Option - 2
Que. 113	Correct Option - 4
Que. 114	Correct Option - 1
Que. 115	Correct Option - 2
Que. 116	Correct Option - 1
Que. 117	Correct Option - 1
Que. 118	Correct Option - 3
Que. 119	Correct Option - 2
Que. 120	Correct Option - 1
Que. 121	Correct Option - 1
Que. 122	Correct Option - 2
Que. 123	Correct Option - 2
Que. 124	Correct Option - 3
Que. 125	Correct Option - 2
Que. 126	Correct Option - 2
Que. 127	Correct Option - 1
Que. 128	Correct Option - 4
Que. 129	Correct Option - 3
Que. 130	



	Correct Option - 1
Que. 131	Correct Option - 3
Que. 132	Correct Option - 4
Que. 133	Correct Option - 1
Que. 134	Correct Option - 3
Que. 135	Correct Option - 1
Que. 136	Correct Option - 3
Que. 137	Correct Option - 1
Que. 138	Correct Option - 1
Que. 139	Correct Option - 4
Que. 140	Correct Option - 2
Que. 141	Correct Option - 4
Que. 142	Correct Option - 2
Que. 143	Correct Option - 2
Que. 144	Correct Option - 2
Que. 145	Correct Option - 3
Que. 146	Correct Option - 4
Que. 147	Correct Option - 1
Que. 148	Correct Option - 3
Que. 149	Correct Option - 4
Que. 150	Correct Option - 3
Que. 151	Correct Option - 1
Que. 152	Correct Option - 4
Que. 153	Correct Option - 2
Que. 154	Correct Option - 2
Que. 155	Correct Option - 1
Que. 156	



Correct Option - 3

Que. 157 Correct Option - 2

Que. 158 Correct Option - 4

Que. 159 Correct Option - 2

Que. 160 Correct Option - 1

Que. 161 Correct Option - 3

Que. 162 Correct Option - 1

Que. 163 Correct Option - 2

Que. 164 Correct Option - 1

Que. 165 Correct Option - 3

Que. 166 Correct Option - 4

Que. 167 Correct Option - 1

Que. 168 Correct Option - 2

Que. 169 Correct Option - 3

Que. 170 Correct Option - 2

Que. 171 Correct Option - 4

Que. 172 Correct Option - 2

Que. 173 Correct Option - 2

Que. 174 Correct Option - 4

Que. 175 Correct Option - 4

Que. 176 Correct Option - 1

Que. 177 Correct Option - 4

Que. 178 Correct Option - 2

Que. 179 Correct Option - 2

Que. 180 Correct Option - 1

Que. 181 Correct Option - 2

Que. 182



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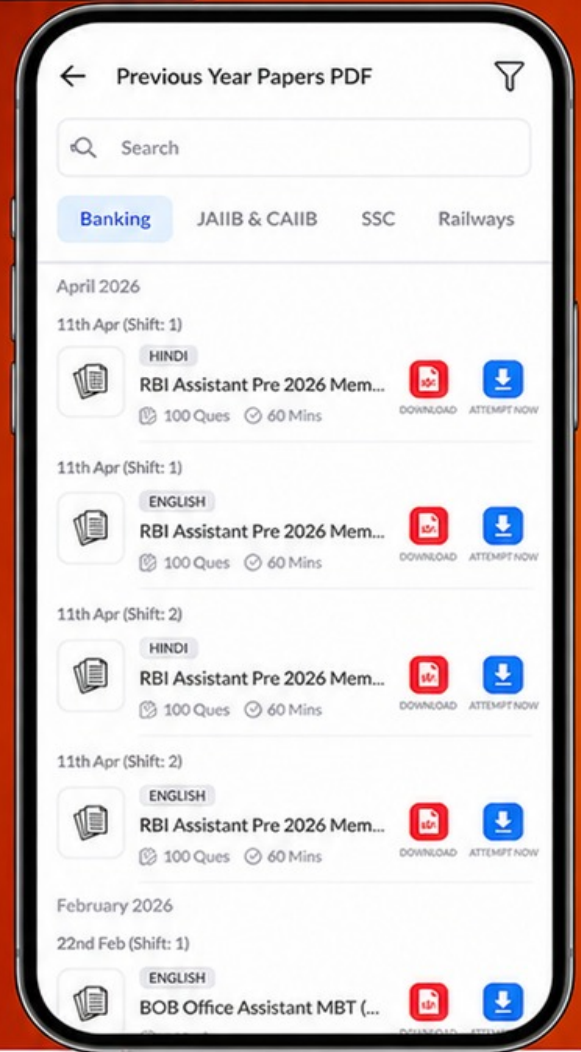
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UP



Punjab



WB



Odisha



TN



AP & Telangana



Haryana



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Correct Option - 4

Que. 183 Correct Option - 3

Que. 184 Correct Option - 3

Que. 185 Correct Option - 4

Que. 186 Correct Option - 1

Que. 187 Correct Option - 1

Que. 188 Correct Option - 1

Que. 189 Correct Option - 4

Que. 190 Correct Option - 4

Que. 191 Correct Option - 3

Que. 192 Correct Option - 1

Que. 193 Correct Option - 4

Que. 194 Correct Option - 4

Que. 195 Correct Option - 2

Que. 196 Correct Option - 3

Que. 197 Correct Option - 1

Que. 198 Correct Option - 1

Que. 199 Correct Option - 2

Que. 200 Correct Option - 3

