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Participant Name	
Test Center Name	
Test Date	22/06/2022
Test Time	4:30 PM - 6:30 PM
Subject	Junior Engineer (Electrical) or Section Officer (Electrical)

Section : Mental Ability

Q.1 Given below are 2 statements followed by 3 conclusions. Consider the statements and conclusions to be true even if they vary from commonly known facts and then decide which of the conclusions follow/s from the given statements.

Statement:
Some flowers are leaves.
All petals are flowers.

Conclusions:
I. All petals are leaves.
II. Some leaves are petals.
III. No petal is a leaf.

- Ans
- A. Only conclusion III follows.
 - B. All the conclusions follow.
 - C. None of the conclusions follows.
 - D. Conclusions I and II follow.

Question ID : 1841222083

Q.2 Choose the wrong number in the given number series.

13, 47, 193, 769, 3073

- Ans
- A. 47
 - B. 13
 - C. 769
 - D. 193

Question ID : 1841222098

O, P, Q और R, एक ही कक्षा में पढ़ते हैं, एक ही इमारत में रहते हैं लेकिन अलग-अलग हैं। भूतल को पहली मंजिल के रूप में, इसके ऊपर की मंजिल को दूसरी मंजिल के रूप में गना है और इसी तरह से अन्य मंजिलों को क्रमांकित करते हुए सबसे ऊपरी मंजिल को छठी क्रमांकित किया गया है। P, M के मंजिल से दो मंजिल ऊपर रहता है, जो कि Q के मंजिल से रहता है। R, M के मंजिल के ऊपर या नीचे नहीं रहता है। R किस मंजिल पर रहता है?

Question ID : 1841222082

Language 'LAWYER' is written as 'NIUAWP', then how will 'JUDGE' be written in the same code language?

- J
 N
 I
 F

Question ID : 1841222087

A is multiplied to B,
 A is added to B,
 A is divided by B,
 B is subtracted from A;

Find the value of $17 \# 19 \$ 23 \% 18 @ 3$?

Question ID : 1841222099

A class of 20 students are standing in the order of increasing height for going to the sports ground. Only five friends are standing after Sohini. Only Thirteen students are shorter than Sohini. How many total students are standing in the queue?

Question ID : 1841222081

Four letter cluster-pairs are similar in some manner and one is different. Select the odd one out.

TKW

LNT

IUR

OGL

Question ID : 1841222093

Number will be there in place of the question mark (?) in the given number matrix?

81
125
?

Question ID : 1841222097

Letters of word 'ELEPHANTS' are rearranged in alphabetical order, which letter will be in the middle most position?

Question ID : 1841222086

A is the father of B,
A is the mother of B,
A is the husband of B,
A is the son of B;

Given expression T \$ M @ Q # F * X, how is T related to X?

None

Sister

Father

Question ID : 1841222089

numbers should be interchanged to make the given equation correct?

$$-76 \times 2 + 3 = -100$$

id 3

d 2

81

d 76

Question ID : 1841222100

clock's minute hand directs towards South West, which direction will the hour hand direct at 4.15?

-East

-West

East

Question ID : 1841222088

A, B, C, D and E are sitting together and talking about their ages. E is younger than A and B. C is younger to only three friends. B is not the youngest. D is younger than only one friend. Who is the youngest?

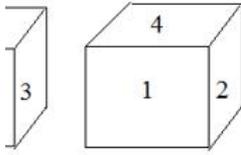
Question ID : 1841222084

Option which is related to the third term in the same way as second term is related to the first term.

SLP : ?

Question ID : 1841222091

Two dice are shown. The six faces of which are numbered 1 to 6, are given.



The face marked 6 is opposite the face marked 3.

Question ID : 1841222096

Select the correct mirror image of the given figure if the mirror is placed at the right side of the figure.



the father of F's mother's mother-in-law T. G is the husband of T and has only one son Y related to F?

er
n
r

Question ID : 1841222090

Four letter clusters are similar in some manner and one is different. Identify the odd one out.

Question ID : 1841222092

Identify the missing letter in the given letter series.

Question ID : 1841222085

A statement is followed by two assumptions. Decide which of the assumptions is/are implicit in the given statement.

Statement: The teacher informs the students, " If you don't complete the homework, I will call your parents."

Assumptions:
I: Students who don't complete homework will be punished.
II: Informing all the students may complete the homework.

- (A) Both the assumptions are implicit.
- (B) Only assumption I is implicit.
- (C) Only assumption II is implicit.
- (D) Neither assumption I nor II is implicit.

Question ID : 1841222094

Commission of India is constituted by the President of India as per which Article of the Indian constitution?

Question ID : 1841222120

headquarter of Small Industries Development Bank of India (SIDBI)?

How

dabad

luru

.

Question ID : 1841222114

in the Indian constitution related to the removal of Supreme Court and judges has been taken from which country?

Ja

i

d States of America

alia

Question ID : 1841222119

by minister Ashwini Vaishnaw flagged off the Jan Shatabdi Express from Jiribam and Jiribam connecting which two north eastern states?

n and Manipur

alaya and Assam

n and Tripura

ra and Manipur

Question ID : 1841222116

से वह कौन सा स्थान है जहां इंडियन ऑयल कंपनी (अब कॉर्पोरेशन) लिमिटेड द्वारा भारत की एक क्षेत्र की रिफाइनरी शुरू की गई थी?

t

Question ID : 1841222117

Who is the first Indian to grab World no 1 in Under-19 (U-19) Girls Singles
with 10,810 points in the latest Badminton World Federation (BWF) Junior

Arun Singh

Prakash Thakar

Prakash Mir

Prakash Bansod

Question ID : 1841222107

Which space Research Organisation (ISRO) successfully test-fired which engine
for India's first human-carry rocket (Gaganyaan human space mission)
in January 2022.

A

B

C

D

Question ID : 1841222102

Which planet's one orbit around the sun takes nearly 164 years?

A

B

C

D

Question ID : 1841222118

Which of the following Panch Prayag indicates the place where the river Alaknanda
meets the Ganga?

A. Prayag

B. Prayag

C. Prayag

D. Prayag

Question ID : 1841222115

Which of the following temples of Khajuraho testifies to the culmination of northern Indian
architectural style of the which dynasty?

A. Chalukyas

B. Cholas

C. Guptas

D. Harappas

Question ID : 1841222111

Goalkeeper named as the captain of India Women's Hockey team at the Women's Asia Cup in Muscat?

Pradhan

Punia

la Chanu

Grace

Question ID : 1841222106

The following state Ghode Modni dance is performed during the festival

1

taka

pur

Question ID : 1841222112

Net has decided to extend the upper age limit for entry to state service to ____ for three years up to 2023.

Question ID : 1841222105

Regulator IRDAI has announced that three companies have been identified as Systemically Important Insurers (D-SIIs) for 2021-22. Which of the following is NOT one of them?

Life Insurance Corporation of India

Life Insurance Company Ltd.

Life Insurance Corporation of India

Life Insurance Company Ltd.

Question ID : 1841222104

Which of the following festivals is NOT celebrated in Jharkhand?

1

2

3

10 Days Utsav

Question ID : 1841222113

Act of _____ was the first step towards education being made an
the government.

Question ID : 1841222110

Who did Humayun capture Kandhar with the help of Shah Tahmasp of Iran?

Question ID : 1841222108

Who is the first Indian to complete prestigious International Air and Space
SP) at NASA Launch Operations' Kennedy Space Centre in Alabama, the

A. Elan

B. Gehlot

C. Avi Dangeti

D. Roman

Question ID : 1841222103

The Central Drug Research Institute (CDRI) has developed an indigenous RT-PCR
kit for the testing of the Omicron variant of coronavirus. It is the first
any government institution. What is it named?

A. "i C"

B. "ti"

C. "an"

Question ID : 1841222101

Who was sent to England as an ambassador of the Mughal king Akbar Shah II (father of
Shah II)?

A. Ram Mohan Roy

B. M Chandra Bose

C. Vish Chandra Bose

D. Jagadhar Tilak

Question ID : 1841222100

$$\frac{\left(\frac{27+15}{2}\right)^2 - \left(\frac{27-15}{2}\right)^2}{5}$$

Question ID : 1841222123

Three natural numbers is 125. If the ratio of the first number to the second is 3 : 2 and that of the second number to the third number is 3 : 5, find the second number?

Question ID : 1841222126

Consider five different brands of shampoo A, B, C, D and E. The sales of these five brands (in lakh number of packs) during the years 2018 and 2020 are shown in the following bar graph.

The sales (in lakh number of packs) of five different brands of shampoo in a Company during the years 2018 and 2020



Find the sales of brand A shampoo in 2020 was by what percentage more than the sales of brand B shampoo in 2020? (nearest integer)

Question ID : 1841222139

metres of cloth 5 m wide will be required to make a conical tent, the base is 14 m and height is 48 m?

Question ID : 1841222136

$33 \times 6 \div 54 - 11 \div 7 \times 35 + 156 \times 8 \div 13 - 9 \div 49 \times 196 + 108 \times 14 \div 36$ is:

Question ID : 1841222124

5 females can do a work in 48 days. In how many days can 5 males and 12 females complete the same work? (nearest to integer)

Question ID : 1841222130

Value of $\frac{(4.9)^2 - (1.1)^2}{4.9 \times 4.9 + 2.2 \times 4.9 + 1.1 \times 1.1}$ is:

Question ID : 1841222121

Table shows the total number of students joined in six different schools A, B, C, D, E and F in three years 2017-2019, and the ratio of boys and girls among them.

2017 Boys : Girls	2018		2019	
	Total	Boys : Girls	Total	Boys : Girls
3 : 2	726	7 : 4	715	8 : 5
17 : 12	867	12 : 5	924	8 : 13
8 : 7	792	7 : 4	637	4 : 3
7 : 5	828	11 : 7	988	7 : 12
11 : 8	754	7 : 6	672	3 : 5
4 : 7	845	8 : 5	952	9 : 8

What is the total number of boys from all six schools in the year 2018?

Question ID : 1841222138

The selling price of an item is 150% of the cost price. If the cost price increases by 50% but the selling price remains the same, what is the new profit percentage?

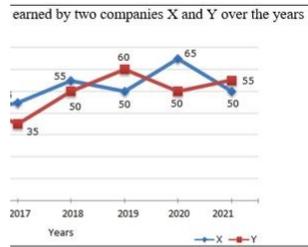
- $\frac{2}{3}\%$
- $\frac{2}{3}\%$
- $\frac{1}{3}\%$
- $\frac{1}{3}\%$

Question ID : 1841222127

The average of five numbers A, B, C, D and E is 48. If the sum of A and B is equal to the sum of C, D and E, then what is the average of A and B?

Question ID : 1841222132

The graph represents the percentage of profit earned by two companies X and Y during the period 2017 -



$$\% = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

If the incomes of companies X and Y in 2020 were in the ratio of 3 : 4 respectively. What was the respective ratio of expenditures in 2020?

5

2

Question ID : 1841222140

If the difference between the 11% and 21% of a number is 56, then what is the 12.5% of that number?

Question ID : 1841222125

The following table shows the number of players from six different states A, B, C, D, E and F in a certain country who participated in different international sports events in the year 2018.

	States					
	A	B	C	D	E	F
9	9	12	14	6	10	
14	8	16	20	12	20	
16	9	15	6	12	8	
13	10	9	11	8	15	
7	13	11	12	15	14	
13	10	9	11	8	15	
8	12	22	14	18	16	
10	8	17	15	10	12	

The number of players from E who participated in high jump is what percentage more or less than the number of players who participated in shooting?

35%

55%

more

more

The in-circle of a triangle is 6.5 cm and the perimeter of a triangle is 48 cm. What is the area (in cm^2) of the triangle?

Question ID : 1841222134

The difference between the compound interest and simple interest on a certain sum at a rate of 10% per annum for 2 years is ₹128. What is the sum (in ₹) of

0

10

0

Question ID : 1841222128

The area of a triangle is $1,815 \text{ cm}^2$ and the ratio of its base and the corresponding altitude is 6:5, then what is the altitude (in cm) of the triangle?

Question ID : 1841222135

What is the smallest number that exactly divides 133, 1085 and 2380 is:

Adda247

Question ID : 1841222122

A family consists of two grandparents, two parents and two grandchildren. Three years ago, the average age of grandparents, parents and grandchildren were 75, 35 and 4 years respectively. What is the average age of the family after seven years from now?

together can finish a piece of work in 12 days, P alone can do this work and Q in 30 days, then in how many days R can do this work?

Question ID : 1841222129

A builder can build a rental toilet in 25 hours while a destroyer can demolish such a toilet in 45 hours. Both the builder and the destroyer were initially set to work on level ground. But after 30 hours, the destroyer was taken out. What is the total time taken to build the toilet?

- Answer: 40 minutes
- Answer: 15 minutes
- Answer: 20 minutes
- Answer: 30 minutes

Question ID : 1841222131

English

Most appropriate option to fill in the blank.
He spoke very quietly to avoid _____ his father.

- Answer: saying
- Answer: telling
- Answer: speaking
- Answer: talking

Question ID : 1841222155

Most appropriate Antonym of the given word.

- Answer: fatal
- Answer: honor
- Answer: diminish
- Answer: young

Question ID : 1841222147

Read the sentence and select the homophone which will correctly complete the sentence.
Her _____ have turned out to be the worse in her life.

Complete the sentence using an appropriate preposition choosing from the options given.
The jet _____ the train at the next stop.

Question ID : 1841222143

Complete the sentence using an appropriate preposition choosing from the options given.
Passengers _____ this flight must complete a landing form.

- a
- b
- c
- d

Question ID : 1841222141

Put the verbs in brackets into correct or more suitable verb form (future tense) from the options given below.
I will _____ Mr. Singh tomorrow.

- a meet
- b met
- c to meet
- d meeting

Question ID : 1841222145

Read the following four jumbled sentences and select the option that gives their correct sequence.
1. _____ of food science involves an understanding of the changes that occur in components during food preparation whether natural or induced by handling.
2. _____ mixture of many different chemical components.
3. _____ reactions may be a result of the interaction between components, with the aid of cooking, and the environmental conditions to which they are subjected during cooking.
4. _____ physical and chemical reactions occur during food preparation.

a

Question ID : 1841222154

Put the words in brackets into correct or more suitable verb form (past tense) from the options given below.
The phone rang when the phone (ring).

- a. will ring
- b. rang
- c. ringing, will ring
- d. ringing, rang

Question ID : 1841222146

Choose the correctly spelled word choosing from the options given

The news of his being unavailable soon became _____.

- a. int
- b. ent
- c. rent
- d. rent

Question ID : 1841222152

Choose the most appropriate Synonym of the given word.

- a. st
- b. ache
- c. ot

Question ID : 1841222148

Choose the most appropriate meaning which best expresses the meaning of the phrase in the bold.
He has won away many prizes at the school sports.

- a. recommended
- b. sold
- c. sold

Question ID : 1841222151

Choose the most appropriate meaning which best expresses the meaning of the phrase in the bold.
The room has been cleared up.

- a. rented
- b. cleaned

c.

Complete the sentence using an appropriate adverb choosing from the following options.
At the party, there was _____ any food left.

- scarcely
- scarcely
- scarcely
- scarcely

Question ID : 1841222142

Choose the correct adverb from the options given to complete the sentence.
The man nearly died of laughing at the poor fellow _____ struggling there in the mud.

- scarcely
- scarcely
- scarcely
- scarcely

Question ID : 1841222144

Choose the correctly spelled word from the options given to complete the sentence.
The doctor and nurses rushed as the patient seemed to be _____.

- conscious
- conscious
- conscious
- conscious

Question ID : 1841222153

ion:

Following passage and answer the questions given below.
 Breakfast is important particularly for a school child. It breaks the fast of the sleep hours and provides energy to a child for problem solving and memory spans in the learning period at school. Children who skip breakfast do not make up for nutrient and energy deficits later in the day and perform more poorly on tests of cognition than those who eat breakfast. Study conducted by NIN (2003-2004) confirmed that eating breakfast regularly is a significant factor in achieving better academic performance. Eating breakfast at home is a healthy habit. It is recommended for children to have just a glass of milk. An ideal breakfast should have all the following components:
 1. Carbohydrates: Carbohydrates are absorbed quickly. Solids like idlis and rotis are preferred. It is better to have liquids in breakfast as they are rich in protein, vitamins and minerals. A good mix of low and high glycaemic index foods release energy continuously. Ready to eat cereals, fruits, milk, protein, iron and vitamin due to the added substances such as milk, fruits, nuts, etc.
 2. Protein: Protein in breakfast eating include eggs, milk, etc.
 3. Fat: Fat in breakfast eating include ghee, oil, etc.
 4. Vitamins: Vitamins in breakfast eating include fruits, vegetables, etc.
 5. Minerals: Minerals in breakfast eating include iron, calcium, etc.
 6. Fiber: Fiber in breakfast eating include whole grains, fruits, vegetables, etc.
 7. Water: Water in breakfast eating include milk, juice, etc.
 8. Energy: Energy in breakfast eating include carbohydrates, proteins, fats, etc.
 9. Health: Health in breakfast eating include good nutrition, regular eating, etc.
 10. Discipline: Discipline in breakfast eating include regular eating, etc.
 11. Social Behaviour: Social Behaviour in breakfast eating include eating with family, etc.
 12. Attendance: Attendance in breakfast eating include regular school attendance, etc.
 13. Academic Performance: Academic Performance in breakfast eating include good grades, etc.
 14. Psychosocial Wellbeing: Psychosocial Wellbeing in breakfast eating include less stress, etc.
 15. Suspension: Suspension in breakfast eating include fewer suspensions, etc.
 The Government of Tamil Nadu is planning to introduce breakfast for school children in addition to the mid-day meal.

Q No : 16

Most appropriate Antonym of the word SUSPENSION?

Continuation

Continuation

Question ID : 1841222161

ion:

ving passage and answer the questions given below.
mportant particularly for a school child. It breaks the fast of the sleep hours
a child for problem solving and memory spans in the learning period at school.
skip breakfast do not make up for nutrient and energy deficits later in the day
perform more poorly on tests of cognition than those who eat breakfast. Study
NIN (2003-2004) confirmed that eating breakfast regularly is a significant
ving better academic performance. Eating breakfast at home is a healthy habit.
gh for children to have just a glass of milk. An ideal breakfast should have all
1 groups.
rridges are absorbed quickly. Solids like idlis and rotis are preferred. It is better
is in breakfast as they are rich in protein, vitamins and minerals. A good mix
gh glycaemic index foods release energy continuously. Ready to eat cereals
m, protein, iron and vitamin due to the added substances such as milk, fruits,
nuts.
akfast eating include
gnitive function and academic performance in school.
hool attendance.
ronutrient profile.
y mass index.
t in psychosocial wellbeing, discipline and social behaviour.
sion and fewer suspensions.
f Tamil Nadu is planning to introduce breakfast for school children in addition
eal.

i No : 17

od groups does an ideal breakfast consist of?

Question ID : 1841222158

ion:

ving passage and answer the questions given below.
 mportant particularly for a school child. It breaks the fast of the sleep hours
 a child for problem solving and memory spans in the learning period at school.
 skip breakfast do not make up for nutrient and energy deficits later in the day
 rform more poorly on tests of cognition than those who eat breakfast. Study
 NIN (2003-2004) confirmed that eating breakfast regularly is a significant
 eing better academic performance. Eating breakfast at home is a healthy habit.
 gh for children to have just a glass of milk. An ideal breakfast should have all
 1 groups.
 rridges are absorbed quickly. Solids like idlis and rotis are preferred. It is better
 is in breakfast as they are rich in protein, vitamins and minerals. A good mix
 gh glycaemic index foods release energy continuously. Ready to eat cereals
 m, protein, iron and vitamin due to the added substances such as milk, fruits,
 nuts.
 akfast eating include
 gnitive function and academic performance in school.
 hool attendance.
 ronutrient profile.
 y mass index.
 t in psychosocial wellbeing, discipline and social behaviour.
 sion and fewer suspensions.
 f Tamil Nadu is planning to introduce breakfast for school children in addition
 eal.

No : 18

g these options does not include in the benefits of breakfast?

ves cognitive function

ves micronutrient profile

es body mass index

es aggression and suspensions

Question ID : 1841222159

ion:

iving passage and answer the questions given below.
mportant particularly for a school child. It breaks the fast of the sleep hours
a child for problem solving and memory spans in the learning period at school.
skip breakfast do not make up for nutrient and energy deficits later in the day
perform more poorly on tests of cognition than those who eat breakfast. Study
NIN (2003-2004) confirmed that eating breakfast regularly is a significant
ing better academic performance. Eating breakfast at home is a healthy habit.
gh for children to have just a glass of milk. An ideal breakfast should have all
1 groups.
rridges are absorbed quickly. Solids like idlis and rotis are preferred. It is better
is in breakfast as they are rich in protein, vitamins and minerals. A good mix
gh glycaemic index foods release energy continuously. Ready to eat cereals
m, protein, iron and vitamin due to the added substances such as milk, fruits,
nuts.
akfast eating include
gnitive function and academic performance in school.
hool attendance.
ronutrient profile.
y mass index.
t in psychosocial wellbeing, discipline and social behaviour.
sion and fewer suspensions.
f Tamil Nadu is planning to introduce breakfast for school children in addition
eal.

No : 19

g these titles best suits the given passage?

ulars of school child

ffects of Breakfast

ly habits of a child

tance of Breakfast

Question ID : 1841222160

ion:

ving passage and answer the questions given below.
 mportant particularly for a school child. It breaks the fast of the sleep hours
 a child for problem solving and memory spans in the learning period at school.
 skip breakfast do not make up for nutrient and energy deficits later in the day
 rform more poorly on tests of cognition than those who eat breakfast. Study
 NIN (2003-2004) confirmed that eating breakfast regularly is a significant
 ing better academic performance. Eating breakfast at home is a healthy habit.
 gh for children to have just a glass of milk. An ideal breakfast should have all
 l groups.
 rridges are absorbed quickly. Solids like idlis and rotis are preferred. It is better
 is in breakfast as they are rich in protein, vitamins and minerals. A good mix
 gh glycaemic index foods release energy continuously. Ready to eat cereals
 m, protein, iron and vitamin due to the added substances such as milk, fruits,
 nuts.
 akfast eating include
 gnitive function and academic performance in school.
 hool attendance.
 ronutrient profile.
 y mass index.
 t in psychosocial wellbeing, discipline and social behaviour.
 sion and fewer suspensions.
 f Tamil Nadu is planning to introduce breakfast for school children in addition
 al.

No : 20

does eating breakfast regularly promote to?

unication Skills

life span

emic performance

olic rate

Question ID : 1841222157

indi

'भला, भीतर से दुखी' अर्थ के लिए उपयुक्त लोकोक्ति कौन सी है?

मुँह पेट खाली

घड़े पर पानी नहीं ठहरता

तले अँधेरा

मुँह को सब चूमते हैं

Question ID : 1841222170

संधि विच्छेद कौन सा है?

ओज

भोज

ज

गोज

नेपथ पर अग्रसर रहो।' यह किस प्रकार का वाक्य है?

वाचक

वाचक

वाचक

वाचक

Question ID : 1841222174

ने' वाक्य का काल है-

भूत

भूत

भूत

भूत

Question ID : 1841222171

श्लोम होगा-

Question ID : 1841222168

बलने' के अर्थ में किस मुहावरे का प्रयोग होता है?

ठंडा होना

मुँह को आना

गर साँप लोटना

धक से रह जाना

Question ID : 1841222169

नका पर्यायवाची है?

Question ID : 1841222167

ही संधि विच्छेद है-

रस्त्र

'I' वाक्य का काल है-

- भविष्य
- वर्तमान
- भूत
- वर्तमान

Question ID : 1841222172

'र लोग ऐसा नहीं समझते।' यह किस प्रकार का वाक्य है?

- क्य
- क्य
- वाक्य
- प

Question ID : 1841222173

की मटकी _____ दी। वाक्य के रिक्त स्थान के लिए उपयुक्त शब्द होगा-

Question ID : 1841222175

रों के सिर जड़ना अच्छी बात नहीं है।' वाक्य के रेखांकित अंश को किस शब्द से प्रतिस्थापित है?

Adda247

Question ID : 1841222176

'सुंदर है।' वाक्य के रेखांकित पद में किस कारक का प्रत्यय है?

- रक
- नकारक
- णकारक
- रक

Question ID : 1841222162

ज्ञान का विशेषण है?

अक

बोधक

चक

मेक

Question ID : 1841222164

से कौन सा विकल्प 'मूल क्रियाविशेषण' है?

क

ख

ग

Question ID : 1841222163

ion:

वर्कमूलक है और जो तर्कमूलक है उन सबको अपना विषय बनाने का दावादर्शनशास्त्र करता है। प्रकृति के केवल सामान्यीकरण का पतालगाना ही इसका व्यवसाय नहीं है, बल्कि प्रकृति में, मानव मन में, संस्थाओं और राष्ट्रों के इतिहास में तथा विश्व के प्रगतिशील उत्थान में इस उपस्थितिकी, जैविक और तर्क की प्रतिक्रिया की खोज करना भी दर्शन का कार्य है। दूसरे शब्दों में, जो कुछ ससीम और सापेक्ष है, के बजाय, दर्शनशास्त्र का विशिष्ट कार्यक्षेत्र पूरे सत्य की खोज है। आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए-

। No : 16

में क्या है?

Question ID : 1841222178

ion:

वर्कमूलक है और जो तर्कमूलक है उन सबको अपना विषय बनाने का दावादर्शनशास्त्र करता है। प्रकृति के केवल सामान्यीकरण का पतालगाना ही इसका व्यवसाय नहीं है, बल्कि प्रकृति में, मानव मन में, संस्थाओं और राष्ट्रों के इतिहास में तथा विश्व के प्रगतिशील उत्थान में इस उपस्थितिकी, जैविक और तर्क की प्रतिक्रिया की खोज करना भी दर्शन का कार्य है। दूसरे शब्दों में, जो कुछ ससीम और सापेक्ष है, के बजाय, दर्शनशास्त्र का विशिष्ट कार्यक्षेत्र पूरे सत्य की खोज है। आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए-

। No : 17

कार्य है-

का अनुमान लगाना

चाई का पता लगाना

के अंशों का पता लगाना

के अंशों का पता लगाना

ion:

र्कमूलक है और जो तर्कमूलक है उन सबको अपना विषय बनाने का दावादर्शनशास्त्र करता है। प्रकृति के केवल सामान्यीकरण का पतालगाना ही इसका व्यवसाय नहीं है, बल्कि प्रकृति में, मानव मन में, संस्थाओं और राष्ट्रों के इतिहास में तथा विश्व के प्रगतिशील उत्थान में इस उपस्थितिकी, जैविक तर्क की प्रतिक्रिया की खोज करना भी दर्शन काकार्य है। दूसरे शब्दों में, जो कुछ ससीम और सापेक्ष है, के बजाय, दर्शनशास्त्र का विशिष्ट कार्यक्षेत्र पूरे सत्य की खोज है। आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए-

। No : 18**होता है-**

।

Question ID : 1841222181

ion:

र्कमूलक है और जो तर्कमूलक है उन सबको अपना विषय बनाने का दावादर्शनशास्त्र करता है। प्रकृति के केवल सामान्यीकरण का पतालगाना ही इसका व्यवसाय नहीं है, बल्कि प्रकृति में, मानव मन में, संस्थाओं और राष्ट्रों के इतिहास में तथा विश्व के प्रगतिशील उत्थान में इस उपस्थितिकी, जैविक तर्क की प्रतिक्रिया की खोज करना भी दर्शन काकार्य है। दूसरे शब्दों में, जो कुछ ससीम और सापेक्ष है, के बजाय, दर्शनशास्त्र का विशिष्ट कार्यक्षेत्र पूरे सत्य की खोज है। आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए-

। No : 19**है-**

मूलक

क

क

मूलक

Question ID : 1841222180

ion:

र्कमूलक है और जो तर्कमूलक है उन सबको अपना विषय बनाने का दावादर्शनशास्त्र करता है। प्रकृति के केवल सामान्यीकरण का पतालगाना ही इसका व्यवसाय नहीं है, बल्कि प्रकृति में, मानव मन में, संस्थाओं और राष्ट्रों के इतिहास में तथा विश्व के प्रगतिशील उत्थान में इस उपस्थितिकी, जैविक तर्क की प्रतिक्रिया की खोज करना भी दर्शन काकार्य है। दूसरे शब्दों में, जो कुछ ससीम और सापेक्ष है, के बजाय, दर्शनशास्त्र का विशिष्ट कार्यक्षेत्र पूरे सत्य की खोज है। आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए-

। No : 20**थेक उपयुक्त शीर्षक क्या होगा?**

क्षा

स्त्र

ज्ञान

defined as the ratio of:

grams of solute / litres of solution

any one of the above

equivalent weight / normality

equivalent weight of solute / litre of solution

Question ID : 1841222183

10th term of the following arithmetic progression.
27,.....

Question ID : 1841222191

For a temperature rise of 20°C, a resistance is increased by 40%, the temperature

rise is:

40°C

20°C

10°C

5°C

Question ID : 1841222199

100 turns. A current of 4 Amp causes a flux of 8 mWb to link the coil.
The inductance of the coil.

is

Adda247

Question ID : 1841222201

When two charged particles are brought near each other, they each exert a force on the other. Which law is it?

Coulomb's 2nd law

Coulomb's Law

Ohm's Law

Faraday's Law

Question ID : 1841222186

Diagram helps to analyze, which of the following?

Force only acted downward for weight

Three forces acted on the body

Gravitational force acted on the body

Force happened at joining point

Question ID : 1841222196

Sum of moments of all the forces acting on the body about the axis of rotation, the body _____.

is in equilibrium

is stable

is forward

is backward

Question ID : 1841222195

"Induced emf in a coil is equal to the rate of change of flux linkage", represents following law?

Lenz's law of electromagnetic induction

Ampere's Law

Ohm's law

Kirchhoff's Circuital law

Question ID : 1841222187

Differential equation of the curve $y^2 = 4ax$

$$\frac{dy}{dx} = \frac{2x}{y}$$

$$\frac{dy}{y} = \frac{2x}{2x}$$

$$= \frac{y}{2x}$$

$$\frac{dy}{y} = \frac{y}{2x}$$

Question ID : 1841222189

Distance between the points (2, -3) and (-6, 3).

10 units

12 units

ances each of 20Ω , 30Ω and 50Ω are connected in parallel. Determine its resistance.

2

Question ID : 1841222200

is the highest calorific value?

n

len

n

ngen

Question ID : 1841222184

ding in a running bus. When the bus is suddenly stopped, what will

lower body stopped with the bus but the upper body moves forward

lower body moves upward but the upper body moves downward

there is no movement of your body

lower body stopped with the bus but the upper body moves downward

Question ID : 1841222197

$$\begin{bmatrix} 5 \\ -2 \end{bmatrix} = \begin{bmatrix} 6 & 5 \\ 3 & -2 \end{bmatrix}$$

value of x.

Question ID : 1841222190

value of $\left\{ i^{23} + \left(\frac{1}{i} \right)^{29} \right\}$ where i is imaginary number.

and hysteresis loss put together are called as _____.

etic losses

osses

the given options

isses

Question ID : 1841222202

is water that especially contains:

Ca^{+2} and Mg^{+2}

O_2 and N_2

and N_2

and CO_2

Question ID : 1841222185

ector, \hat{a} is represented as _____.

$X \frac{\vec{a}}{|\vec{a}|}$

$(\frac{\vec{a}}{|\vec{a}|})$

Question ID : 1841222194

ill not change its motion unless a force acts on it" Which law is it?

on's First Law

avart Law

on's second law

s Law

Question ID : 1841222198

Which of the following is incorrect for extrinsic semiconductor?

- Created by doping
- Electrical conductivity is higher in comparison to intrinsic material
- Number of holes and electrons is equal
- Pure material

Question ID : 1841222188

2

Which of the following is false regarding insulators?

- Positive temperature coefficient
- High resistivity
- Forbidden gap
- Low conductivity

Question ID : 1841222213

Which of the following states that distinguishes a SCR from diode is _____ state.

- Reverse Blocking
- Forward Conduction
- Reverse Blocking
- Forward Conduction

Question ID : 1841222220

Which of the following is Fleming's Left hand rule:

- Index finger: Magnetic Field ; Thumb : Direction of Force
- Index finger: Direction of current ; Thumb : Direction of Force
- Index finger: Direction of Force ; Thumb : Direction of current
- Index finger: Direction of Force ; Thumb : Magnetic Field

Question ID : 1841222205

Which of the following is defined in engineering drawing as _____.

- Distance between two points
- Distance between two objects
- Ratio of actual dimension to linear dimension of the object
- Ratio of linear dimension to the actual dimension of the object

Question ID : 1841222210

Diode is formed by _____ bonds.

Covalent

Diatomic

Covalent and Electrovalent both

Electrovalent

Question ID : 1841222212

Common emitter amplifier operates in _____ quadrant.

Third

Second

First

Fourth

Question ID : 1841222221

Forward diode current flows because of ____.

Electrons only

Holes only

Minority carriers only

Majority carriers only

Question ID : 1841222219

At the cut-off frequency, the current response has dropped to _____.

50 percent of its initial value

70.7 percent of its initial value

50 percent of its initial value

70.7 percent of its initial value

Question ID : 1841222208

In an n-type semiconductor, the majority carrier is ____.

Electrons

Holes

Protons

Neutrons

Question ID : 1841222214

A circuit element that restricts all frequencies above a certain frequency is known as

Low Pass Filter

A material to conduct magnetic lines of force through it is called the magnetic material.

- Permeability
- Reluctance
- Permeability
- Magnetic field intensity

Question ID : 1841222216

Induced EMF of one coil due to which it opposes the change of current in the other coil is called as _____.

- Mutual inductance
- Self flux
- Self capacitance
- Capacitance

Question ID : 1841222217

Time constant of RL circuit is _____.

Question ID : 1841222207

Material which has very few free electrons is called as _____.

- Insulator
- Semiconductor
- Conductor
- Superconductor

Question ID : 1841222211

Properties of magnetic hard material is _____.

- High retentivity, High coercivity
- Low retentivity, Low coercivity
- Low retentivity, High coercivity
- High retentivity, High coercivity

Question ID : 1841222215

Dimensioning in engineering drawing is essential _____.

- representing angle
- to perform the function of piece of the drawing sheet
- to perform the function of space
- to perform the function of information purpose only

Question ID : 1841222209

Regarding magnetic flux and electric current, which statement is not true?

- There is an infinite number of perfect Insulators exist for both magnetic flux and electric current
- Inductance = mmf/re reluctance where current = emf/resistance
- Inductance of a magnetic circuit varies but the resistance of an electric circuit is constant
- Flux is represented as Wb and Current is in ampere

Question ID : 1841222203

Conductivity is _____.

- ohm/mho
- ohm meter
- ohm meter²

Question ID : 1841222218

When self inductance L and mutual inductance M are connected in series, the equivalent inductance is:

- a) $L + M$
- b) $L + 2M$

Question ID : 1841222204

Two resistors are connected in parallel and their equivalent resistance is 2 ohm. What will be the value of each resistor if both have same value?

- 1 Ω , $R_2 = 4 \Omega$
- 1 Ω , $R_2 = 8 \Omega$
- 4 Ω , $R_2 = 4 \Omega$
- 8 Ω , $R_2 = 8 \Omega$

Question ID : 1841222206

Which of the following is not a feature of 8085 microprocessor, which in the following does not exist?

Y
I

Question ID : 184122232

How many diodes are required for three phase bridge rectifier?

Question ID : 184122227

For three logical inputs to AND gate, which one in the followings will give the high output?

(a) 1(1st input) 0(2nd input) 1(3rd input)

(b) 1(1st input) 1(2nd input) 0(3rd input)

(c) 0(1st input) 0(2nd input) 0(3rd input)

(d) 1(1st input) 1(2nd input) 1(3rd input)

Question ID : 184122228

The breaking stress of a conductor is

(a) directly proportional to square of the tensile strength of the conductor

(b) directly proportional to the eight times of the tensile strength of the conductor

(c) inversely proportional to the tensile strength of the conductor

(d) directly proportional to the tensile strength of the conductor

Question ID : 184122242

Under no load and light loading condition, the voltage of the receiving bus for long transmission line will be higher because of _____.

(a) Ferranti effect

(b) Poynting effect

(c) Skin effect

(d) Proximity effect

Question ID : 184122239

al sheath radius, radius of core and length of the cable are 2.4 cm, 1.3
pectively then Insulation thickness of a single core conductor will be

- n
- :m
- n
- n

Question ID : 184122237

imal number 7 to Binary number.

Question ID : 184122235

ribution system, the lowest voltage is received along a single feeder at

- us bar of the feeder
- he 2/3rd distance from the first bus bar
- middle bus bar
- first bus bar

Question ID : 184122236

of NPN Common Emitter Configuration is defined as _____.



Question ID : 184122224

configuration medium line length, if the voltage at the sending end and of sending end shunt branch are V and $Y/2$ then charging current of that line is _____.

- $(Y/2)^2$
- $Y/2$
- $Y/2$
- Y

Question ID : 1841222240

usually _____.

- inductor in series and one capacitor in parallel with line
- inductor surrounded by two capacitors
- capacitor surrounded by two inductors
- inductor in series

Question ID : 1841222225

With n variables, how many Boolean expressions can be formed?

- 2^n
- 2^{2^n}
- $2^{2^n - 1}$
- $2^{2^n + 1}$

Question ID : 1841222229

For a NAND gate, What will be the logical output if both the inputs are low?



Question ID : 1841222233

Which is the basic building block of _____.

- adder circuit
- 1/2 divider circuit
- 2/3 divider circuit
- potential circuit

Question ID : 1841222234

Among the following A to D converter is fastest?

- 1) type
- 2) type
- 3) type
- 4) type

Question ID : 1841222231

The efficiency for half wave rectifier is _____.

6

Question ID : 1841222226

Convert _____ into its decimal number.

Question ID : 1841222230

For the cross arms, the string efficiency will be _____.

- 1) same irrespective of the length of cross arm
- 2) at one particular length of cross arm

3) er
4) r

Question ID : 1841222241

The _____ of short transmission line is neglected because _____.

- 1) charging current is low
- 2) load current is low
- 3) series inductive current is low
- 4) charging current is high

Question ID : 1841222238

In the common Emitter Configuration, the output is taken across _____.

- 1) Collector and Emitter
- 2) Collector and Base
- 3) Base and Emitter
- 4) Collector and Base

4

A three phase induction motor is running at 4% slip and full load. If the motor is 720 rpm, the supply frequency is _____.

Hz

Hz

$\frac{2}{3}$ Hz

HZ

Question ID : 1841222259

The synchronous speed of 50 Hz, 2 pole synchronous motor is _____.

rpm

rpm

rpm

rpm

Question ID : 1841222262

In a phase full bridge VSI, the output fundamental voltage is _____ for DC link voltage = 48 V. Load is resistive in nature.

V

V

Question ID : 1841222252

The field winding of a dc motor _____.

carries the armature current

opposes the applied voltage

carries the applied voltage

carries the applied voltage and aids the armature current both

Question ID : 1841222256

A voltmeter has a guaranteed accuracy of 1 percent fullscale reading. The percentage of limiting error on full scale is _____.

In a full wave mid point converter, each SCR is subjected to a peak current I_m , where V_m is the maximum voltage of input supply.

π
 π

Question ID : 184122249

Which of the following can be used on _____.

- Amplitude Modulation (AM) only
- Width Modulation (PWM) only
- PWM & FM
- Frequency Modulation (FM) only

Question ID : 184122251

In a buck converter, find the average output voltage when dc voltage = 230 V across load resistance = 10 ohm and duty cycle = 0.4. Take a voltage drop of 2 V across the diode.

✓

Question ID : 184122250

Which of the following is _____.

- Measuring Instrument
- Timing instrument
- Protecting Instrument
- Controlling Instrument

Question ID : 184122243

Which of the following devices are used in half bridge voltage sourced inverter?

Question ID : 184122253

A 4-pole, 3-phase induction motor is running at 950 rpm and has rotor cu loss of 1000 W. The rotor input is _____.

1000 W

1000 W

1000 W

Question ID : 1841222258

Which of the following converts electromagnetic radiation into voltage?

Gauge

Photovoltaic cell

Photometer

Question ID : 1841222245

A generator delivers 395 A at 250 V and the resistance of the shunt field winding and armature are 50 ohm and 0.05 ohm respectively. The generated emf will be _____.

250 V

250 V

250 V

250 V

Question ID : 1841222260

Which is equivalent to:

Two CRs joined together in series

One SCR joined in parallel to switch

Two CRs joined together in parallel

One CR

Question ID : 1841222248

The inertia about axis of rotation appeared in retarding torque of a flywheel device is measured in _____.

kg m²

kg m²

kg m²

kg m²

Question ID : 1841222244

rotation of motor is determined by _____.

- aw
- ays law
- mbs law
- ngs left hand rule

Question ID : 184122257

t of thyristor, a four layered solid-state device having turn on
ics that can be controlled externally by:

- ency
- ge or current

tance

Question ID : 184122247

y of a transformer will be maximum when _____.

- current losses = copper losses
- er losses = Iron losses
- r loss = Hysteresis loss
- resis loss = Eddy current loss

Question ID : 184122261

ture winding of an alternator operates at _____ the field winding voltage.

- ame voltage as
- lesser voltage than
- higher voltage than
- re voltage of

Question ID : 184122254

ine, the generated emf will increase with _____.

- crement of armature current
- of the given options
- crement of speed
- crement of armature conductors

Question ID : 184122255

ied to a certain device and oscilloscope read following waveforms of current and voltage. Which of be drawn from it?

→

- ng by 5 degree
- ase difference
- t is leading
- it is lagging

Question ID : 1841222271

start, capacitor run single phase induction motor is basically a ____.

- ries Motor
- se induction motor
- se induction motor
- ries Motor

Question ID : 1841222263

rical wiring ____.

- ld be placed in live wire
- d be placed in neutral wire
- d be placed in earth wire
- e plced either in live or neutral wire

Question ID : 1841222282

ied to a circuit where current flow is $(10+j5)A$. The active power will be

- W
- /
- /
- W

Question ID : 1841222268

tor is generally _____.

- to zero
- :han unity
- er than unity

Inductive reactance of the circuit is 53.2Ω and the frequency is 60 Hz . The net reactance of the circuit is _____.

Question ID : 1841222269

If an inductance and a capacitance are connected in series. The values of R, L, C are 20Ω , 30Ω and 10Ω respectively. The net reactance of the circuit is _____.

Ω

Question ID : 1841222270

Which of the following is incorrect with respect to concealed conduit wiring?

Reduces risk of shocks

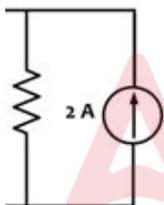
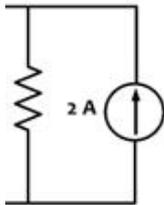
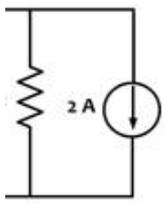
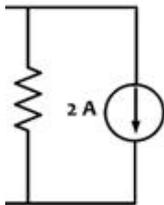
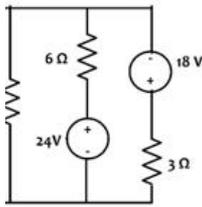
More expensive as compared to surface conduit wiring

Provides a reliable and safe wiring system

Installation is easy

Question ID : 1841222278

The equivalent current source representation of the following circuit will be:



Question ID : 1841222267

Each power sub circuit in electrical wiring should normally be restricted to

- 1000 watts
- 100 watts
- 10 watts
- 10000 watts

Question ID : 1841222281

Direct earthing is done with the help of _____.

- Resistance wire connected between phase wire and ground
- Resistance wire connected between non carrying current part of the equipment
- Resistance wire connected between non carrying current part of the equipment
- Resistance wire connected between phase wire and ground

Question ID : 1841222279

Peak value of the current, $I(t) = 10 + 10\pi \sin 314t$

- 10 p
- 10 π
- 10 amp
- 10 π

Question ID : 1841222272

Which of the following is not a technique of electrical wiring?

- Ring and Capping Wiring
- Sheathed Wiring
- Star wiring
- Parallel Wiring

Question ID : 1841222280

Which of the following valve, gate, generator are involved with _____.

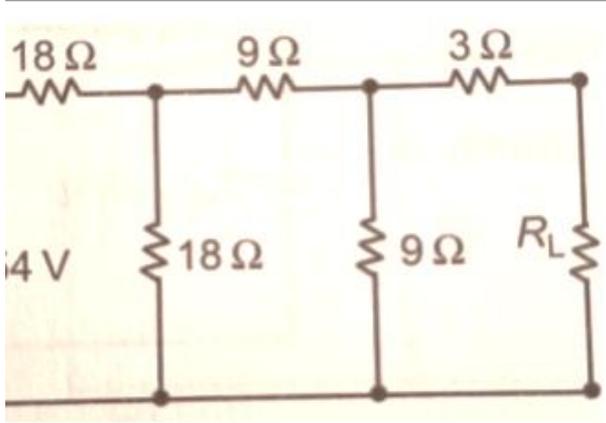
- High Power
- Low power
- High power
- Low

Question ID : 1841222275

Three resistors R , $2R$ and $4R$ are connected in star connection, its equivalent delta connection will have resistances:

- R , $7R$ and $14R$
- $4R$ and $8R$
- $6R$ and $12R$
- $R/2$ and $R/4$

Question ID : 1841222266



Find the Thevenin equivalent impedance across R_L

- 18Ω
- 9Ω
- 3Ω
- 18Ω

Question ID : 1841222265

Which of the following is used to produce steam for _____.

- Water
- Coal
- Natural gas
- Oil

Question ID : 1841222274

For maximum power transfer from source to $5-j2$ ohm of load, the source impedance will be _____.

- 5Ω
- $5-j2$ Ω
- 5Ω
- 5Ω

Question ID : 1841222264

Which of the following is not a part of thermal power plant?

- Boiler
- Condenser
- Refrigerator
- Generator

Work done is due to gravitational force of attraction between earth and moon
Work done is:

Hydro Energy

Wind Energy

Solar Energy

Thermal Energy

Question ID : 184122277

