





# GOVT. OF NCT OF DELHI Delhi Subordinate Services Selection Board

FC-18, Institutional Area, Karkardooma, Delhi – 110092.

www.dsssb.delhigovt.nic.in

Participant ID	
Participant Name	
	10/07/2021
Test Time	9:00 AM - 12:00 PM
Subject	PGT-Maths (Female)

Section: Mental Ability

Q.1 Which answer figure will complete the pattern in the question figure?

TEACHERS

Ans

X 1.

3.

X 4.

valking in the south direction and walks a distance of 7 meters. Now he took a valk 6m. Again he takes a left turn and walks 15m and reached a point P. In in is Rahul from the initial point?

h-East

h-East

h-West

h-West

Question ID: 97675511954

ption that is to unrelated (or odd one out amongst) the given set of words.

er

er

Question ID: 97675511941

angles are there in the given figure?



agram that best represents the relationshi	p among the given classes.
'en	
2	
00	
	Question ID: 97675511952
ion in which the words share the same rela	ationship as that shared by the given
	adda 241
t:lawyer	adda 241
	adda 241
t:lawyer	Question ID: 97675511942
t:lawyer	Question ID : 97675511942
t : lawyer :ge : Job	Question ID : 97675511942
t: lawyer  ige: Job  n responses, find the missing term in the s	Question ID : 97675511942
t: lawyer  ge: Job  n responses, find the missing term in the s  'X, G15W,?	Question ID : 97675511942
t: lawyer  ge: Job  n responses, find the missing term in the s  'X, G15W,?  /	Question ID: 97675511942
t: lawyer  ge: Job  n responses, find the missing term in the s  'X, G15W,?  /	Question ID : 97675511942
t: lawyer  ge: Job  n responses, find the missing term in the s  'X, G15W,?  /	Question ID : 97675511942

ng question, select the related letter cluster from the given alternatives.

:: ACZO : ?

V

Question ID : 97675511943

ing number in the series given below.

Question ID: 97675511951

 $\boldsymbol{n}$  responses, find the missing letter cluster in the series.



ode language, 'MAPED' is coded as '64' and 'RECK' is coded as '41'. How will ed as in that language?

n below are given two statements followed by two conclusion. You have to jiven statements to be true even if they seem to be at variance with the own facts and then decide which of the given conclusions logically follows given statements, disregarding commonly known facts. res. are tyres. are clutchs. hs are cars. ly conclusion II follows her conclusion I or II follows ly conclusion I follows ither conclusion I nor II follows Question ID: 97675511948 e photograph, Mamta said that the woman in this photo is the wife of the son wife's only daughter. How is the Mamta related to that woman? ıer ner-in-law Question ID: 97675511946 iore than Rahul. Yamuna scored as much as Divya. Lokita scored less than scored more than Yamu<mark>na. Manju</mark> scored less than Divya. Who scored the a

ıl

una

Question ID: 97675511945

n given, relations between different elements are shown in the statements. ents are followed by two conclusions. Find out which of the given conclusions given statements and select the correct alternative from the given choices.

 $\mathsf{P} < \mathsf{Q} \geq \mathsf{R} = \mathsf{S} \geq \mathsf{L}$ 

Il is true

ir Lor II ie trud

ıns should be interchanged to make the given equation correct?

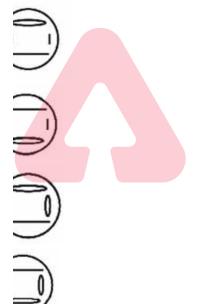
- -1 = 14
- хĿ
- <del>1</del>+
- **d**+
- 1-

Question ID: 97675511950

or image of the following figure.

### figure:





# TEACHERS adda 247

agram that best represents the relationship among the given classes.

ronavirus, Diabetes



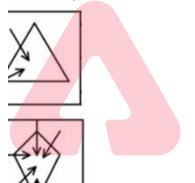




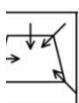


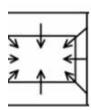
Question ID: 97675511953

 $\ensuremath{\mathsf{Ire}}$  given in the following question. All figures have something in common ind the odd figure out.



# TEACHERS adda 241





nave to take the given statements to be true even if they seem to be at commonly known facts and then decide which of the given conclusion w(s) from the given statements. s are diamonds. are crystals. iamonds are emeralds e emeralds are diamonds e crystals are emeralds ystals are emeralds Question ID: 97675511947 /areness e first initiative of Mahatma Gandhi as a nationalist in India? la andar edabad nparan Question ID: 97675511968 following is the largest District in India as per area? ıbai jalore ıchh Question ID: 97675511966 e following years was the Indian Policy Resolution adopted by the Parliament? Question ID: 97675511963

n below, there are two statements followed by four conclusions given in

following individuals composed the National Song "Vande Mataram"? ajendra Prasad ndranath Tagore Mangeshkar timchandra Chatterjee Question ID: 97675511959 nt Nyiragongo volcano has erupted. In which of the following countries is it оссо agascar ocratic Republic of Congo ria Question ID: 97675511978 following commission was appointed by the Central Government on Unions in 1983? **lvad Commission** kar Commission Commission aria Commission Question ID: 97675511971 st ever Indian recipient of a Nobel Prize? ndranath Tagore aman rtya Sen ner Teresa Question ID: 97675511974 following individuals is the author of the book "Anandamath"? timchandra Chatterji ajendra Prasad shi Premchand ndranath Tagore Question ID: 97675511973

ding capacity is the highest in which of the	e following soils?
k Soil	
Soil	
ey Soil	
Coil	
	Question ID: 97675511967
	Question D . 97673311907
of India was built to commemorate the vis	it of which of the following Kings?
George V	
William IV	
Edward VII	
George I	
	Question ID: 97675511961
following mahajanapadas was Vaishali the	capital of?
iti	
adha	
chala	Question ID : 97675511970
he following laid the foundation of Golden Arjan Sahib at Mian Mir ji	Temple?
Arjan Sahib	Temple? CC
Arjan Sahib at Mian Mir ji	adda247
Arjan Sahib at Mian Mir ji Amardas Sahib	Question ID : 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib Ramdas Sahib	Question ID: 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib Ramdas Sahib following refrective defects of vision is als	Question ID: 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib Ramdas Sahib following refrective defects of vision is also	Question ID: 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib Ramdas Sahib  following refrective defects of vision is also pia	Question ID: 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib Ramdas Sahib  following refrective defects of vision is also pia ermetropia byopia	Question ID: 97675511960
Arjan Sahib at Mian Mir ji Amardas Sahib	Question ID: 97675511960

ad won the first Cricket World Cup in the	year 1975?
stan	
ralia	
Indies	
	0 11 10 274774
	Question ID : <b>97675511975</b>
following organizations developed the CC	UVID-19 vaccine Covishield?
erna	
n Medical Association	
at Biotech	
m Institute of India	
	Question ID : <b>97675511977</b>
cientific Name of National Bird of India?	
ock	
: Cokoo	
Cristatus	
hera Tigris	TEACHERC
	TEACHERS
	Question ID : 97675511965
ate the process for the removal of the Vic	e-President of India?
ident	annabur
se of People	
ncil of Ministers	
ncil of States	
	Question ID : 97675511972
judge who presided over Mahatma Gandh Jovement in the year 1922?	i's hearing during the Non-
ice James Dewar	
ice William McDonell	
ice CN Broomfield	
ice Henry Davison	

following Tennis player won the ATP Rome 2021 (Paris Open)? ık Djokovic el Nadal <sup>1</sup> Murray er Federar Question ID: 97675511976 -Officio Chairperson of the NITI Aayog? President e Minister e Minister ident Question ID: 97675511962 **Ability** st fraction of the following fractions. Question ID: 97675511983 nose edge is 8 cm are joined together to form a single cuboid. What is the new cuboid so formed?  $\,$ 50 cm<sup>3</sup>  $50 \text{ cm}^3$ 4 cm<sup>3</sup>

Question ID: 97675511994

 $50 \text{ cm}^3$ 

ht 2 items at the same price. He sold one item at 20 percent profit and another cent profit. What is the overall percentage profit he made?

ercent

percent

percent

percent

Question ID: 97675511987

= 243 and  $5^{(q-p)} = 5$ , then find the value of  $(p \times q)$ ?

Question ID: 97675511981

owing table carefully to answer the given question.

nployees in different departments of five organisations

anisation → partment ↓	A	В	C	D	E	ERS
HR	145	80	120	180	160	
Finance	120	75	100	220	140	
<b>Tarketing</b>	150	90	115	200	190	
IT	225	110	160	280	220	PY
ninistration	180	120	130	110	130	

tio between the number of employees from Finance and Marketing together of organization B and these two departments together of D respectively?

3

1

3

ie iii tile piace of question mark (:) iii ti	e given expression?
$\times 35 + 45^2 - 15^2) = ?^2$	
	Question ID : 97675511979
hes his college in 2 hours by his bike at the his average speed by his car to reach	
n/hr	
n/h	
n/hr	
//	
n/hr	
n/nr	Question ID : 97675511992
shirt is decreased by 25 percent and h	nce the sale is increased by 20
shirt is decreased by 25 percent and h	nce the sale is increased by 20 the shop?
shirt is decreased by 25 percent and h will be the effect on the total revenue of	nce the sale is increased by 20
shirt is decreased by 25 percent and h will be the effect on the total revenue of ercent decrease	nce the sale is increased by 20 the shop?
shirt is decreased by 25 percent and h will be the effect on the total revenue cercent decrease	nce the sale is increased by 20 the shop?  TEACHERS
shirt is decreased by 25 percent and h will be the effect on the total revenue of ercent decrease ercent increase  'cent increase	nce the sale is increased by 20 the shop?

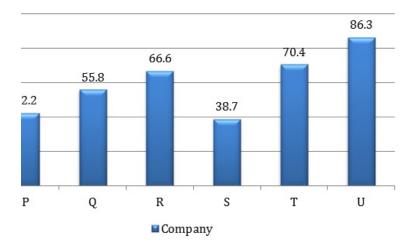
100

:400

800

500

bar graph shows the sales (in Rs. crore) of six companies in 2012-13.



mate percentage of the total sales of the given six companies together was the  $\mbox{\sc iny}$  T?

ercent

percent

percent

5 percent

Question ID: 97675511998

ill come in place of question mark (?) in the following question?

$$\sqrt[3]{27} - \sqrt[3]{343} = ?$$

adda 241

Question ID: 97675511980

i numbers is 33. If average of first 15 numbers is 28 and average of last 25

5, then what is the average of remaining five numbers?

umbers is 3 times their HCF. The sum of the LCM and the HCF is 44. If one then the other number is:

Question ID: 97675511982

owing table carefully to answer the given question.

nployees in different departments of five organisations

nisation → partment ↓	A	В	C	D	E
HR	145	80	120	180	160
Finance	120	75	100	220	140
<b>Tarketing</b>	150	90	115	200	190
IT	225	110	160	280	220
ninistration	180	120	130	110	130

nployees in IT department of organization C is what per cent of the total uployees in organization C in all the departments together?



ours to type 24 pages. Neelam takes 9 hours to type 45 pages. In how many II type 351 pages together?

ours

ours

ours

ours

Question ID: 97675511993

peed of boat in upstream to speed of boat in downstream is 2: 3. The time to cover 45 km in downstream is t hours, then in t hours how many kilometers ed by boat in upstream?

m

n

took the examination in a school, and 13 percent of the students got he number of boys who got distinction is 2 more than the number of girls who n. If 20 percent of the girls got distinction, find the total number of boys in the Question ID: 97675511985 ains tin, copper and zinc in the ratio of 4:6:5. Find the quantity of copper to be kg of this alloy to form a new alloy in which the ratio of the above elements in er is 4:4:5? Question ID: 97675511989 he diagonal of a kite is 16 cm and its area is 96 cm<sup>2</sup>, what is the length of the I of the kite? m m Question ID: 97675511995 three partners in a business who shared profit in the ratio of 2:5:3. If they had months, 6 months and 9 months respectively, what is the ratio of their 9 Question ID: 97675511988 st appropriate meaning of the given idiom/ phrase.

usic

e offered warm hospitality

e greeted rudely

njoy a music programme

ear the consequences

Question ID: 97675512012

rd which means the same as the group of words given.

that combines media of communication:

itasking

imillionaire

iple

imedia

Question ID: 97675512013

ongly spelt word.

met

deur

eful

antee

TEACHERS

Question ID: 97675512010

ng question, four sentences are given out of which three sentences are y incorrect while one is correct. Find out which sentence is grammatically elect the appropriate option.

gation on this portal should be such that the complete law-making chain, right nt act to the subordinate legislations, is clearly visible.

entral Acts and subordinate legislations passed by the Centre, include rules, nd circulars, should be made available on this portal.

data uploaded on the portal should available in machine readable PDF formats.

portal should allow uploaded of state government Acts, regulations and agislations as well.

Question ID: 97675511999

st appropriate antonym of the given word.

st appropriate option to substitute the underlined segment in the given here is no need to substitute it, select 'No substitution required'. rends in agricultural production, fish harvest, bio-energy production and terials have increased, in response to populational growth, rising demand and evelopment. ılation growth, rising demand and technological development. ubstitution required. llated growth, rising demand and technological development. ilation growing, rising demand and technological development. Question ID: 97675512002 e following sentences in their correct order to form a meaningful paragraph. o many reasons to include veggies into your diet. ries, nutrient-dense, versatile and tasty. se the term healthy, vegetable is the first word that comes to our mind. plate with healthy and nutritious food items is an effective way to lose weight. S Question ID: 97675512005 st appropriate synonym of the given word. Έ air ence le ısity Question ID: 97675512007 st appropriate option to fill in the blank. \_\_\_\_\_ hygiene, we have to keep ourselves and our I aware that to \_ clean. erve ıtain ıre Question ID: 97675512004

st appropriate meaning of the given idiom/ phrase.	
înger	
gs always get worse before they get better	
xperience unpleasant consequences	
llent health	
od condition espc. Getting a lot of money	
	Question ID : 97675512011
	( ) ( )
st appropriate option to fill in the blank.	
damp grass, breaking a leg, cracking a bone in	the other and hurting
	Question ID : 97675512003
rs need to have more than 20 people, then they need to trict Collector. In time, no more than 20 people will be allowed to gather the Ganesh idol is kept for worshipping. It Collector will then verify the size of the pandal and will social distancing will be maintained with 20 plus people.	in the sanctum within
egment in the sentence which contains the grammatical	error from the given
e the examination faster and answered one more question	on he would have
had wrote the examination faster	
answered one more question	
ould have scored better	

rror

rectly spelt word

runner

runner

runner

Question ID: 97675512009

st appropriate option to substitute the underlined segment in the given nere is no need to substitute it, select 'No substitution required'.

om the two events <u>will be counted</u> for "ranking of competing nations" at the James, the CGF said on Monday.

e count

ubstitution required

ount

ounted

Question ID: 97675512001

on

wing passage and answer the questions below.

of Rome, Marullus and Flavius, break up a gathering of citizens who want to us Caesar's triumphant return from war. The victory is marked by public games ar's protégé, Mark Antony, takes part. On his way to the arena, Caesar is stopped who warns him that he should 'Beware the Ides [15th] of March.'

rs, Caius Cassius and Marcus Brutus, are suspicious of Caesar's reactions to nolds in the Republic. They fear he will accept offers to become Emperor. He ing a lot of power recently and people treat him like a god. Cassius, a neral himself, is jealous of Caesar. Brutus has a more balanced view of the on. The conspirator Casca enters and tells Brutus of a ceremony held by the ey offered Caesar a crown three times, and he refused it every time. But the are still wary of his aspirations.



a, and their allies plant false documents to manipulate Brutus to join their cause esar. After doing so, they visit Brutus at night in his home to persuade him of nere they plan Caesar's death. Brutus is troubled but refuses to confide in his Portia. On 15 March, Caesar's wife, Calpurnia, urges him not to go to the Senate. isionary dreams and fears the portents of the overnight storms.

ertheless persuaded by flattery to go to the Capitol. At the Capitol, he is stabbed birator in turn. As Brutus gives the final blow, Caesar utters the famous phrase:

No:16

onspirators plant false documents?

anipulate Portia to join their cause to remove Brutus

anipulate Cassius to join their cause to remove Brutus

anipulate Caesar to join their cause to remove Brutus

anipulate Brutus to join their cause to remove Caesar

wing passage and answer the questions below.

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ertheless persuaded by flattery to go to the Capitol. At the Capitol, he is stabbed pirator in turn. As Brutus gives the final blow, Caesar utters the famous phrase:

No : 17 the given passage, Portia has been portrayed as-

ıs' wife

ius' daughter
a's mother

Jrnia's sister

Question ID: 97675512017

adda 247

wing passage and answer the questions below.

of Rome, Marullus and Flavius, break up a gathering of citizens who want to us Caesar's triumphant return from war. The victory is marked by public games ar's protégé, Mark Antony, takes part. On his way to the arena, Caesar is stopped who warns him that he should 'Beware the Ides [15th] of March.'

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ertheless persuaded by flattery to go to the Capitol. At the Capitol, he is stabbed pirator in turn. As Brutus gives the final blow, Caesar utters the famous phrase:

#### No:18

nis line "He has been gaining a lot of power recently and people treat him like a according to the given passage:



wing passage and answer the questions below.

of Rome, Marullus and Flavius, break up a gathering of citizens who want to us Caesar's triumphant return from war. The victory is marked by public games ar's protégé, Mark Antony, takes part. On his way to the arena, Caesar is stopped who warns him that he should 'Beware the Ides [15th] of March.'

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ertheless persuaded by flattery to go to the Capitol. At the Capitol, he is stabbed pirator in turn. As Brutus gives the final blow, Caesar utters the famous phrase:

No:19

following statements is incorrect according to the given passage?

ar is nevertheless persuaded by flattery to go to the Capitol.

offered Caesar a crown three times, and he refused it every time.

ar utters the famous phrase: Et tu, Brute?

e Capitol, Cassius is stabbed by each conspirator in turn.

wing passage and answer the questions below.

of Rome, Marullus and Flavius, break up a gathering of citizens who want to us Caesar's triumphant return from war. The victory is marked by public games ar's protégé, Mark Antony, takes part. On his way to the arena, Caesar is stopped who warns him that he should 'Beware the Ides [15th] of March.'

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No: 20

ar's wife, Calpurnia, urge him not to go to the Senate?

use she was told to do so by the two senators Brutus and Cassius

use an stranger told her to be killed by some senators

use she was not much concerned about Caesar's prestige

use she had a visionary dream of something bad to happen

IERS

Question ID: 97675512016

ndi

क्य में निम्न में से किस चिन्ह का प्रयोग नहीं किया गया है?

या विशेषण बनती हैं, उन्हें "नामधातु क्रिया" कहते हैं।

राम चिन्ह

वेराम चिन्ह

ग चिन्ह

र चिन्ह

Question ID: 97675512034

से कौन-सा शब्द "निष्ठा" का पर्यायवाची नहीं है?

ा के लिए एक शब्द का चयन कीजिए-	
ान से दूसरे स्थान पर न ले जाया जा सके-	
ील	
पन्न	
τ	
	Question ID : 97675512027
	Q. 100 (100 (100 (100 (100 (100 (100 (100
प्ते तत्सम शब्द का चयन कीजिए-	
वा	
<u>श</u> या	
	Question ID : 97675512021
प्ते अशुद्ध वर्तनी वाले वाक्य का चयन कीजिए-	
का व्यवहारिक ज्ञान अपेक्षित है।	
जे कक्षा में कितने छात्र हैं।	A CILITING
	<b>ACHERS</b>
य के लिए स्वच्छ जल आवश्यक है।	
	Question ID : 97675512031
<del></del>	
से <mark>कौन-सा शब्द स</mark> दैव बहुवचन में प्रयुक्त होता है?	JUGET I
Т	
П	
	Question ID: 97675512029
	Question ID : 97675512029
	Question ID : 97675512029
п	Question ID : <b>97675512029</b>
ग ध	Question ID : 97675512029
मे कौन-सा शब्द तत्पुरुष समास का उदाहरण नहीं है? ा ध	Question ID : 97675512029
ग ध	Question ID: 97675512029

प्ते उत्तमपुरुष वाचक सर्वनाम का चयन कीजिए-Question ID: 97675512023 मे कौन-सा वाक्य विस्मयादिबोधक वाक्य है? कितनी ठंडी रात है। ह कार्य नहीं करेंगे। जीवन में उन्नति करें। अब जा चुका होगा। Question ID: 97675512030 मे मुहावरा "अंडे का शहजादा" का क्या अर्थ है? अनुभवी होना। ी मनुष्य। परिश्रम करने वाला। वहीन व्यक्ति। Question ID: 97675512032 मे दिया गया वाक्य किस काल का उदाहरण है? न रहे थे। न भूतकाल य वर्तमानकाल भूतकाल ुमद् भूतकाल Question ID: 97675512028 मे लोकोक्ति "अपना रख पराया चख" का क्या अर्थ है? त चीज का विशेष मूल्य नहीं होता। सफलता मिले, उसी का यश फैले। । छोड़ कर थोडे में ही संतुष्ट होना। वस्तु की रक्षा, दूसरे की वस्तु का उपभोग।

मे "आराधना" शब्द का विशेषण कौन-सा है?	
T	
चित	
य	
	Question ID : <b>97675512022</b>
े से अशुद्ध वर्तनी वाले शब्द का चयन कीजिए-	
<u>ੰ</u> ਜ	
ाग	
वश्यक	
येत	
	Question ID: 97675512025
प्रे "अवाक्" का विलोम शब्द कौन-सा है?	
7	
	CLIEDC
	ACHERS
	Question ID : 97675512026
श का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए-	
	UG ET I
ं शक्तियाँ हैं- वाणी और कर्म। कुछ लोग वचन से संसार को राह दिखाते हैं औ ही महान शक्तियाँ हैं। शब्द की महिमा अपार है। विश्व में साहित्य, कला, विज्ञा	
उर कोरे शब्द व्यर्थ होते हैं, जिनका आचरण न हो। कर्म के बिना वचन, व्यवहा	
क्ते महान है, पर चिरस्थायी और सनातनी शक्ति तो व्यवहार है। महात्मा गाँधी	ने इन दोनों की कठिन और
थी। महात्मा जी का सम्पूर्ण जीवन उन्ही दोनों से युक्त था। वे वाणी और व्यव	हार में एक थे। जो कहते थे
ं उनकी महानता का रहस्य है। कस्तूरबा ने शब्द की अपेक्षा कृति की उपासना ो। प्रभाव होता है। 'बा' ने कोरी शाब्दिक, शास्त्रीय, सैद्धांतिक शब्दावली नहीं र्स	
का विश्वास शब्दों की अपेक्षा कर्मो में था। वे जो कहा करती थीं उसे पूरा करत	ी थी। वे रचनात्मक कर्मों
थीं। इसी के बल पर उन्होनें अपने जीवन में सार्थकता और सफलता प्राप्त की	비 
No : 16 मे उपर्युक्त गद्यांश का उचित शीर्षक कौन-सा है?	
देह: चिरस्थायी एवं सनातनी शक्ति	
और कर्म	
मूर्ति गाँधी	

ना महत्व

श का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए-

ं शक्तियाँ हैं- वाणी और कर्म। कुछ लोग वचन से संसार को राह दिखाते हैं और कुछ लोग कर्म से। शब्द ही महान शक्तियाँ हैं। शब्द की महिमा अपार है। विश्व में साहित्य, कला, विज्ञान,शास्त्र सब शब्द-शक्ति के गर कोरे शब्द व्यर्थ होते है, जिनका आचरण न हो। कर्म के बिना वचन, व्यवहार के बिना सिद्धांत की कोई

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No: 17

के अनुसार, गाँधीजी की महानता का रहस्य क्या है?

गरीबों की सहायता करते थे।

इते थे वही करते थे।

हते थे वह, कभी नही करते थे।

ारे व्यक्ति कहते थे, वही करते थे।

Question ID: 97675512037

on:

श का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए-

ं शक्तियाँ हैं- वा<mark>णी और कर्म। कुछ लोग</mark> वचन से संसार को राह दिखाते हैं और कुछ लोग कर्म से। शब्द ही महान शक्तियाँ हैं। शब्द की महिमा अपार है। विश्व में साहित्य, कला, विज्ञान,शास्त्र सब शब्द-शक्ति के गर कोरे शब्द व्यर्थ होते है, जिनका आचरण न हो। कर्म के बिना वचन, व्यवहार के बिना सिद्धांत की कोई

RS

क्ते महान है, पर चिरस्थायी और सनातनी शक्ति तो व्यवहार है। महात्मा गाँधी ने इन दोनों की कठिन और थी। महात्मा जी का सम्पूर्ण जीवन उन्ही दोनों से युक्त था। वे वाणी और व्यवहार में एक थे। जो कहते थे उनकी महानता का रहस्य है। कस्तूरबा ने शब्द की अपेक्षा कृति की उपासना की थी, क्योंकि कृति का प्रभाव होता है। 'बा' ने कोरी शाब्दिक, शास्त्रीय, सैद्धांतिक शब्दावली नहीं सीखी थी। वे तो कर्म की का विश्वास शब्दों की अपेक्षा कर्मों में था। वे जो कहा करती थीं उसे पूरा करती थी। वे रचनात्मक कर्मों थीं। इसी के बल पर उन्होनें अपने जीवन में सार्थकता और सफलता प्राप्त की थी।

247

No:18

के संदर्भ में, प्राय: सज्जन व्यक्ति संसार को \_\_\_\_\_राह दिखाते है।

कार्यक्षमता से।

गरीबो की मदद करने की भावना से।

बुद्धिक्षमता से।

कर्म एवं वाणी से।

श का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए-

ं शक्तियाँ हैं- वाणी और कर्म। कुछ लोग वचन से संसार को राह दिखाते हैं और कुछ लोग कर्म से। शब्द ही महान शक्तियाँ हैं। शब्द की महिमा अपार है। विश्व में साहित्य, कला, विज्ञान,शास्त्र सब शब्द-शक्ति के गर कोरे शब्द व्यर्थ होते है, जिनका आचरण न हो। कर्म के बिना वचन, व्यवहार के बिना सिद्धांत की कोई

क्ते महान है, पर चिरस्थायी और सनातनी शक्ति तो व्यवहार है। महात्मा गाँधी ने इन दोनों की कठिन और थी। महात्मा जी का सम्पूर्ण जीवन उन्ही दोनों से युक्त था। वे वाणी और व्यवहार में एक थे। जो कहते थे उनकी महानता का रहस्य है। कस्तूरबा ने शब्द की अपेक्षा कृति की उपासना की थी, क्योंकि कृति का प्रभाव होता है। 'बा' ने कोरी शाब्दिक, शास्त्रीय, सैद्धांतिक शब्दावली नहीं सीखी थी। वे तो कर्म की का विश्वास शब्दों की अपेक्षा कर्मों में था। वे जो कहा करती थीं उसे पूरा करती थी। वे रचनात्मक कर्मों थीं। इसी के बल पर उन्होनें अपने जीवन में सार्थकता और सफलता प्राप्त की थी।

No:19

ने कौन-सा शब्द "सार्थकता" का पर्यायवाची नही है?

पिं

ता

गेता

F

Question ID: 97675512040

on:

श का ध्यानपूर्वक अध्ययन कर प्रश्नों के उत्तर दीजिए-

ह शक्तियाँ हैं- वा<mark>णी और कर्म। कुछ लोग</mark> वचन से संसार को राह दिखाते हैं और <mark>कुछ लोग कर्म से। शब्द</mark> ही महान शक्तियाँ हैं। शब्द की महिमा अपार है। विश्व में साहित्य, कला, विज्ञान,शास्त्र सब शब्द-शक्ति के पर कोरे शब्द व्यर्थ होते है, जिनका आचरण न हो। कर्म के बिना वचन, व्यवहार के बिना सिद्धांत की कोई

RS

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247

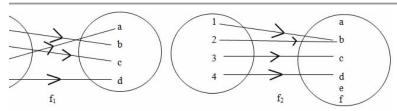
No: 20

**प्रे "चिरस्थायी" से क्या अभिप्राय है?** 

शीघ्र नष्ट होने वाला।

ज दिमाग स्थिर न हो।

<sub>ह</sub> रहनेवाला या टिकाऊ।



following is correct if the above image represents the functions  $f_1$  and  $f_2$ ?

is one-one, f2 is one-one

is onto, f2 is one-one

is one-one, f2 is onto

s onto, f2is onto

Question ID: 97675512049

- $\rightarrow$  R defined by  $f(x) = x^2 3x + 2$ , then f(f(x)) =
- $+6x^3-13x^2+3x$
- $-6x^3 + 10x^2 3x$
- $+6x^3+10x^2+3x$
- $-6x^3-13x^2+3x$

## **TEACHERS**

Question ID: 97675512046

for all  $n \in \mathbb{N}$ , then  $\lim_{n \to \infty} U_n^{1/n}$  is equal to-

$$\int_{\infty}^{1} \frac{U_n + 1}{U_n}$$

$$\int_{\infty}^{1} \frac{U_{n-1}}{U_{n}}$$

$$\lim_{\infty} \frac{U_n}{U_{n-1}}$$

$$n \frac{U_n}{\sum_{n=1}^{\infty} U_{n+1}}$$

 $\exists g: R \rightarrow R$  are given by  $f(x) = \cos x$ , and  $g(x) = 3x^2$ , then t be determined ind fog both do not exist ! fog Question ID: 97675512048 ly convergent series is a series which is lutely Convergent rergent but not absolutely convergent but absolutely convergent lutely divergent Question ID: 97675512060 R is defined as R=  $\{(a, b) : a \le b^2\}$  is \_\_\_\_\_. sitive xive metric an Equivalence Relation Question ID: 97675512041 following is incorrect? / sequence has a monotone subsequence / sequence has a limit point y bounded sequence has a convergent subsequence / sequence has a countable number of terms Question ID: 97675512054 integer function f:  $R \rightarrow R$  given by f(x) = [x], (where [x] denotes the greatest One, onto One, but not onto ner One-One nor onto , but not One-One Question ID: 97675512045

### y operation \* on N is defined as a \* $b = a^3 + b^3$ , then –

commutative but not associative

oth associated and commutative

leither commutative nor associative

issociative but not commutative

Question ID: 97675512047

the following tests does not give absolute convergence of a series?

) Test

parison Test

Test

nitz's test

Question ID: 97675512059

ain of convergence for  $x - \frac{x}{2} + \frac{x}{3} - \frac{x}{4} + \dots$  is



**TEACHERS** 

Question ID: 97675512055

the following series is divergent?

$$\ln \frac{1}{n}$$

$$1/n^3$$

$$\ln \frac{1}{n^2}$$

$$/\sqrt{n}$$
 tan  $1/n^2$ 

Question ID: 97675512057

$$\sum (-1)^{n+1} \frac{1}{n}$$
 is-

ounded

litionally Convergent

 $\sum$   $\mathbf{b_n}^2$  are convergent series of positive real numbers then,  $\sum \sqrt{a_n \cdot b_n}$ 

t be convergent

or may not be convergent

/ergent

be convergent

Question ID: 97675512056

ence 
$$\{x_n\}$$
, where  $x_n=1+\frac{1}{3}+\frac{1}{5}+...+\frac{1}{2n-1}$  is-

Cauchy sequence

llatory

otonically decreasing

rergent

Question ID: 97675512052

and  $p = \{(a,a),(b,b),(c,c),(d,d),(a,b),(b,a),(b,c),(c,b)\}$ , then p is-

exive and symmetric

valence

metric and transitive

exive and transitive

**TEACHERS** 

Question ID : 97675512042

en by f(x) = 4x + 3, then inverse of f is

$$=\frac{3-y}{4}$$

$$=\frac{y-4}{3}$$

$$=\frac{4-y}{3}$$

$$=\frac{y-3}{4}$$

Question ID: 97675512050

be defined as f(x) = 8x. Choose the correct answer:

either one-one nor onto

ne-one onto

ice {a2n} converges to a2, then the sequence {an} converges to-

ot convergent

ι

Question ID: 97675512051

d g : B  $\rightarrow$  C are one-one, then gof : A  $\rightarrow$  C is-

one

ner One-One, nor onto

one and onto both

Question ID: 97675512044

the following is true?

$$(B \cup C) = (A \times B) \cap (A \times C)$$

$$(B \cap C) = (A \times B) \cup (A \times C)$$

$$-B) \times C = (A \times C) - (B \times C)$$

$$(B-C) = (A \times C) - (A \times B)$$

 $-B) \times C = (A \times C) - (B \times C)$ 

Question ID: 97675512080

#### following is not true?

r) = u + i.v is an analytic function, then u and v are both harmonic functions

unction does not satisfy Cauchy - Riemann equations, then it is not analytic

and v are both harmonic functions then f(z) = u + i.v is analytic

 $\mathbf{r}$ ) =  $\mathbf{u}$  + i.v is an analytic function, then  $\mathbf{u}$  (x, y) =  $\mathbf{c}_1$  and  $\mathbf{v}$  (x, y) =  $\mathbf{c}_2$  are

 $x^3$ -  $3xy^2$  of an analytic function f(z) = u + i.v, then 
monic conjugate and  $v(x,y) = 3x^2y - y^3 + c$ , c is any constant

monic conjugate and  $v(x,y) = 3x^2y - y^3 + c$ , c is real constant

rmonic conjugate and  $v(x,y) = y^2 - 3x^2y + c$ , c is real constant

rmonic conjugate and  $v(x,y) = y^3 - 3x^2y + c$ , c is any constant

Question ID: 97675512067

, then how many elements are there in P(A)?

lement

Question ID: 97675512074

i-empty sets A, B, C are having relation  $A \cap B = A \cap C$  and  $A \cup B = A$ 

addazyr

=C

Question ID: 97675512075

nplete metric space then no non-empty open sub-set of  ${\bf X}$  is of first category.  ${\bf m}$  states this?

:hy's Theorem

ano-Weierstrass Theorem

Baire category Theorem

mediate Value Theorem

 $=\frac{1}{z}$ ,  $z \neq 0$ , then

isfies Cauchy – Riemann equation, but not analytic for all  $z \neq 0$ 

ontinuous only but nowhere differentiable

s not satisfy Cauchy − Riemann equation for all z ≠ 0

nalytic for all  $z \neq 0$ 

Question ID: 97675512065

nber and  $f = r^n (\cos n\theta + i.\sin n\theta)$ , then

nalytic everywhere except possibly at r = 0

nalytic nowhere

nalytic everywhere except possibly at  $\theta = 0$ 

nalytic everywhere

Question ID: 97675512061

are two non-empty sets such that n(X) = 17, n(Y) = 23 and  $n(X \cup Y) = 38$ , Y) is -



s of convergence of the power series  $\sum_{n=0}^{\infty} \frac{(n!)^2}{2n!} \, z^n$  is

Question ID: 97675512066

of the integral  $\int_{c}^{z^2 e^{2z}} dz$ , where c is a circle IzI = 2 is -

.sin2

following represents De Morgan's Law?

$$\cap B = A' \cup B'$$

$$' \cup B') = A \cap B'$$

$$\cup B') = A' \cap B$$

$$\cup B$$
)' = A'  $\cap B$ '

Question ID: 97675512073

400 players, 250 play football and 200 play cricket, then how many people play es?

Question ID: 97675512079

 $(x, y) + i \cdot v \cdot (x, y)$  be analytic everywhere and  $u - v = (x - y) \cdot (x^2 + 4xy + y^2)$ ,

 $z = -i z^3 + c$ , c is arbitrary constant

z) = i.z<sup>3</sup> + c, where c is arbitrary constant  $\triangle$ 

 $z = z^2 (1 + i) + c$ , c is arbitrary constant

z = z (1 - i.z) + c, c is arbitrary constant

2247

C)]  $\cap$  [A'  $\cap$  (B'  $\cap$  C')] is equal to -

niversal set

 $\cap$  (B'  $\cap$  C')

11 set

J(BUC)

of the integral  $\int_{C} \frac{ze^2}{(z-1)^3} dz$ , where c is a circle |z| = 2 is-

C

ic

.i.c

c

Question ID: 97675512070

## $z|^2$ , then

ifferentiable only at zero

ifferentiable everywhere except 0

ifferentiable everywhere

ifferentiable nowhere

Question ID: 97675512063

 $c: x \in \mathbb{Z}$ 

 $-1: x \in \mathbb{Z}$ 

 $-2: x \in \mathbb{Z}$ } then -

 $Z_2$ ,  $Z_3$  form a partition of  $\mathbf{Z}$ 

**TEACHERS** 



$$\bigcap Z_2 \cap Z_3 = \mathbf{Z}$$

Z2, Z3 form a group under multiplication

,  $Z_2$  ,  $Z_3$  form a partition of  ${\bf R}$ 

Question ID: 97675512076

,3,4,5,6,7,8,9}

4,}

3}, then (A U B)' is -

5,8}

5.7.9}

 $\begin{array}{ll} \frac{|z|}{\text{Re}(z)} & \text{, if Re}\left(z\right) \neq 0 \\ 0 & \text{, if Re}\left(z\right) = 0 \end{array}, \text{then} -$ 

ot continuous nowhere

ot continuous at 0

ot continuous only at 0

ot continuous everywhere

Question ID: 97675512062

}

y + n = 0 be the normal to the circle  $x^2 + y^2 + a^2$  then –

2

Question ID: 97675512083

the point (-3, 8, 4) in the plane 6x - 3y - 2z + 1 = 0, is -

- -2)
- 9)
- 0)
- , 3)

adda 241

Question ID: 97675512097

quation of the cone which passes through the co-ordinate axes is-

$$y^2 + y^2z^2 + z^2x^2 = 0$$

$$y + fyz + gzx = 0$$

$$+yz-zx=0$$

$$^{2}+b^{2}+cz^{2}+2hxy+2fyz+2gzx=0$$

f revolution of the straight line  $z^2 = y$ , x = 0 about the y axis is-

$$+z^2=y$$

$$+z^2=x$$

$$= x^2 + y^2$$

$$= x^2 + z^2$$

Question ID: 97675512093

nals at the point  $(ct_1, \frac{c}{t_1})$  on the hyperbola  $xy = c^2$  meets it is point  $(ct_2, \frac{c}{t_2})$  then-

$$t_1^3 = -1$$

$$t_1 = -1$$

$$t_2 = -1$$

$$t_1 = -1$$

Question ID: 97675512085

ie sphere that passes through the points (0, 0, 0), (a, 0, 0), (0, b, 0), (0, 0, c) is -

a)<sup>2</sup> + (y-b)<sup>2</sup> + (z-c)<sup>2</sup> = 
$$\frac{1}{2}\sqrt{(a^2 + b^2 + c^2)}$$

$$-\frac{a}{2}$$
)<sup>2</sup> + (y -  $\frac{b}{2}$ )<sup>2</sup> + (z -  $\frac{c}{2}$ )<sup>2</sup> =  $\frac{1}{2}$  (a<sup>2</sup>+b<sup>2</sup>+c<sup>2</sup>)

$$+ y^2 + z^2 = a^2 + b^2 + c^2$$

$$-\frac{a}{2}$$
)<sup>2</sup> +  $(y - \frac{b}{2})^2 + (z - \frac{c}{2})^2 = \frac{1}{4} (a^2 + b^2 + c^2)$ 

Question ID: 97675512100

on  $ax^2+by^2+cz^2+2ux+2vy+2wz+d=0$ , represents a cone

$$^{2} + bv^{2} + cw^{2} = d$$

$$u + acv + abw = d$$

$$+c$$
). $u^2+(a+c).v^2+(a+b).w^2=d$ 

## limension, the equation $x^2 = 2.\lambda .y$ , $\lambda \neq 0$ represents –

liptic cylinder

inder

perbolic cylinder

abolic cylinder

Question ID: 97675512096

### e diameters of the hyperbola are such that -

meet the curve at real point

meet the curve at imaginary points

meet the curve at infinity

meets the curve at real point and another meets at imaginary point

Question ID: 97675512090

is through a point (1, -2, 1) and is perpendicular of two planes 2x - 2y + z = 0: = 4. The distance of the plane from the point (1, 2, 2) is -



# **TEACHERS**

Question ID: 97675512099

ordinate of a centre of the circle  $r = 4.\cos \theta + 3.\sin \theta$  is-

$$\tan^{-1}\frac{2}{3}$$

$$\tan^{-1}\frac{3}{4}$$

$$\tan^{-1}\frac{3}{4}$$

$$\tan^{-1}\frac{2}{3}$$
)

ween the lines represented by  $x^2$  - 2xy -  $y^2$  + 2x + 3y - 1 = 0, is -

Question ID: 97675512081

gents to the ellipse  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  makes intercepts of lengths h he axis, then –

$$+\frac{k^2}{b^2}=1$$

$$-\frac{k^2}{b^2} = 1$$

$$-\frac{b^2}{k^2}=1$$

$$+\,\frac{b^2}{k^2}=1$$

# **TEACHERS**

Question ID: 97675512086

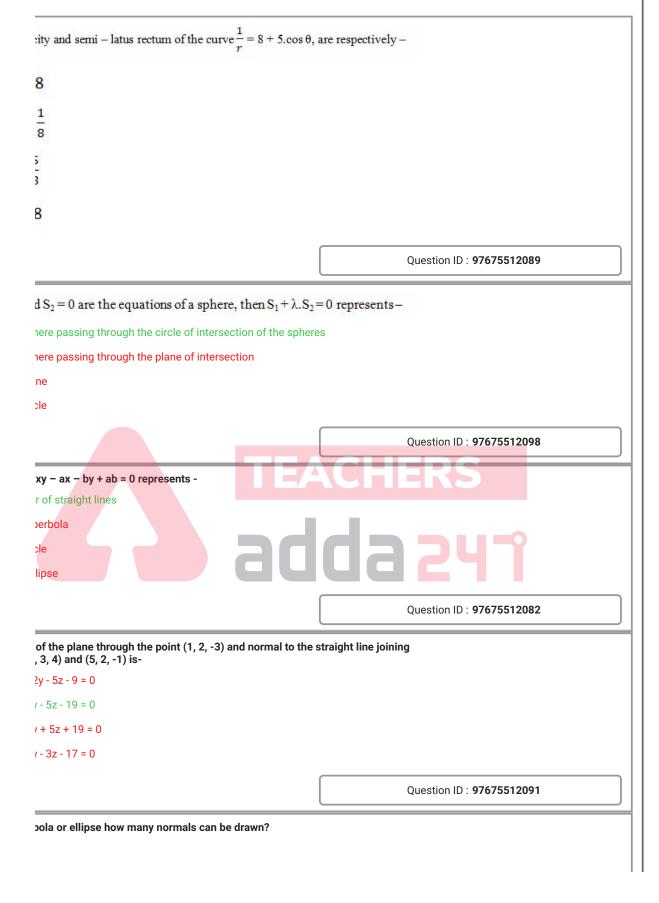
cal chord of a parabola and d be the distance from vertex, then-



 $c \frac{1}{d}$ 

 $d^2$ 

d



t distance between the z-axis and the line  $\frac{x-2}{1} = \frac{y-1}{2} = \frac{z+1}{2}$  is-

5

Question ID: 97675512094

 $\propto + \cot \propto = 2 + \sqrt{5}$ , then value of  $\cos \propto is$ 



be a necessary and sufficient condition for the curve v = constant to be a the general surface?

$$-FE_1+2EF_1=0$$

$$-FE_1-2EF_1=0$$

of surface ds is given by-

$$H^2\sqrt{du^2+dv^2}$$

$$H\sqrt{du^2+dv^2}$$

=H.dudv

=H2dudv

Question ID: 97675512117

 $\theta + Cos\theta$  and  $Y = Cot\theta$  -  $Cos\theta$ , then find the value of  $\frac{X^2 - Y^2}{\sqrt{XY}}$ .

Question ID: 97675512107

$$+\cos^{-1}\left(\frac{q}{b}\right) = \alpha$$
, then  $\frac{p^2}{a^2} + k\cos\alpha$ ,  $+\frac{q^2}{b^2} = \sin^2\alpha$  where k is equal

b b

р<u>q</u> b adda 247

pq ab

Question ID: 97675512101

 $e \text{ of } \sqrt{3} \text{ sin } 10^{\circ} \text{ is equal to } -$ 

0° - cos70°

 $0^{\circ} + \cos 70^{\circ}$ 

 $0^{\circ} + \sin 40^{\circ}$ 

 $0^{\circ} + \sin 50^{\circ}$ 

ot  $\left(7\frac{1}{2}\right)^{\circ}$  is –  $\sqrt{3} + \sqrt{5} + \sqrt{6}$  $2+\sqrt{3}+\sqrt{5}+\sqrt{6}$  $\sqrt{2} + \sqrt{3} + \sqrt{6}$  $\sqrt{2} + \sqrt{3} + \sqrt{6}$ Question ID: 97675512109 ) is -Question ID: 97675512108 e xyz = 4, what shall be the equation of the tangent plane at the point (1, 2, 2)? t - z + 1 = 0y + z = 2y + z = 6y + z - 1 = 0Question ID: 97675512112  $\approx$  (A-30), where 3A and (A-30) are acute angles, find the value of (sin 2A + cos

symptotic lines is given by-

$$du^2 - 2M dudv + Ndv^2 = 0$$

$$u^2 - Ndv^2 = 0$$

$$dudv = 0$$

$$u^2 + 2M dudv + Ndv^2 = 0$$

Question ID: 97675512119

be a helix which of the following should be the most necessary and sufficient

ratio of the curvature and the torsion is constant

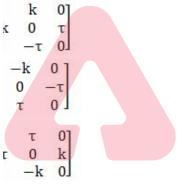
torsion is constant

product of the curvature and the torsion constant

curvature is constant

Question ID: 97675512116

the appropriate matrix of the coefficient of Frenet-Serret formula?





 $\begin{bmatrix} -\tau & 0 \\ 0 & -k \\ k & 0 \end{bmatrix}$ 

Question ID: 97675512114

surface, x = ucosv, y = usinv, z = cv. The first fundamental coefficients are

$$0, u^2 + c^2$$

sv, 
$$\sin v$$
,  $u^2 + 1$ 

$$0, \sqrt{u^2 + c^2}$$

value of  $\frac{\cot^3 2A + 3\cot 2A \csc^2 2A}{\csc^2 2A(\cos^6 A - \sin^6 A)}$ 

Question ID: 97675512106

the first quadrant and  $2\sqrt{3}sinAcosA = cos^2A - sin^2A$ , then the value (A/2)sin(A/2) is:

Question ID: 97675512104

point on a surface, then P will be a singularity of the surface if -

$$\times \mathbf{r}_2 \neq \mathbf{0}$$

$$=$$
  $\mathbf{r}_2$ 

$$=\mathbf{r}_2=\mathbf{0}$$

$$\times \mathbf{r}_2 = \mathbf{0}$$

adda 241

Question ID: 97675512111

alue of:  $\frac{\sec 8A (\tan 10A + \tan 6A)}{4(\tan 10A - \tan 6A)}$ 

Α

1A

Α

Α

poloid of revolution  $z = x^2 + y^2$ , the asymptotic lines is given by -

$$du^2 + v^2 dv^2 = 0$$

$$u^2 + u^2 dv^2 = 0$$

$$^{2} - dv^{2} = 0$$

$$^2 + dv^2 = 0$$

Question ID: 97675512120

elation between radius of spherical-curvature R and the radius of curvature  $\rho$  ' and  $\sigma$  (the reciprocal of the torsion).

$$=\sigma^2+(\rho'\rho)^2$$

$$\rho'^{2}+(\rho\sigma)^{2}$$

$$:\sigma^2+(\frac{p^1}{\sigma})^2$$

$$: \rho^2 + (\rho' \sigma)^2$$

Question ID: 97675512115

sum of coefficient of the expansion  $(1+x-3x^2)^{4165}$ 

Question ID: 97675512136

binomial theorem  $(2^{3n} - 7n - 1)$  is divisible by which of the following numbers?

of a continuous time signal x(t) = e-A|t|, A>0 is \_\_\_\_\_

$$\frac{2A}{+\omega^2}$$

2)

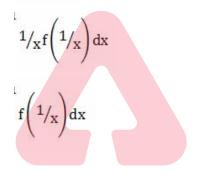
1 2)

Question ID: 97675512126

ntinuous function, then  $\lim_{n\to\infty}\sum_{r=0}^{n-1}\frac{1}{n}f\left(\frac{r}{n}\right)$  can be expressed as -

f(x) dx

xf(x) dx



**TEACHERS** 



Question ID: 97675512140

ing integrator given by  $y(t) = \int_{-\infty}^{\infty} x(t)dt$ :

uces an abounded output for every causal bounded input

uces a bounded output for every anticausal bounded input

no finite zeros in its double-sided Laplace transform Y(s).

no finite singularities in its double sided Laplace transform Y(s)

(t) is given by 
$$x(t) = \begin{cases} 1, & \frac{-T}{4} < t \le \frac{3T}{4} \\ -1, & \frac{3T}{4} < t \le \frac{7T}{4} \\ -x(t+T) \end{cases}$$

ong the following gives the fundamental Fourier terms of x(t)?

$$in(\frac{\pi t}{T} - \frac{\pi}{4})$$

$$\operatorname{in}(\frac{\pi t}{T} + \frac{\pi}{4})$$

$$os(\frac{\pi t}{T} + \frac{\pi}{4})$$

$$\cos(\frac{\pi t}{T} - \frac{\pi}{4})$$

Question ID: 97675512127

### following is true?

/ integrable function is monotone increasing

/ integrable function is continuous

/ monotone function is integrable

/ discontinuous function is integrable



Question ID: 97675512139

remainder when 2252 is divided by 210?

da 247

Question ID: 97675512135

est coefficient of  $(x+1)^{20}$  is:

he number  $(6 + 4\sqrt{3})$ 

$$\sqrt{2} + 1)^2$$

$$(\sqrt{3}-1)^2$$

$$\sqrt{3} + 1)^2$$

$$(\sqrt{3}+1)^2$$

Question ID: 97675512129

I valued function of a real variable with period T. Its trigonometric les expansion contains no terms of frequency  $w=2\pi\,(\frac{2k}{T}),\,k=1,2,$  terms are present. Then y (t) satisfies the equation:

$$y(t-T) = y(t-T/2)$$

$$y = y(T - t) = -y(t - T/2)$$

$$y = y(t + T) = y(t + T/2)$$

$$y(t-T) = -y(t-T/2)$$

Question ID : 97675512121

= 2, then the value of  $\sum_{r=0}^{n} n_{C_r} a^r b^{n-r}$ 

Question ID: 97675512138

ent of x-2 of this expansion  $\left(2x^3 - \frac{7}{x}\right)^8$ 

e term in the expansion of  $\left(x^2 + \frac{1}{x^2} + 2\right)^n$  is:

$$\frac{n!}{\left|\cdot\right|^2}$$

$$\frac{5..(2n+1)}{n!}2^n$$

Question ID: 97675512132

following is true?

1000 > 10000 100000000

1

1 and 2

ner 1 nor 2

2

# **TEACHERS**

Question ID: 97675512128

nder when  $75^{75^{75}}$  is dividied by 37:

Question ID: 97675512134

uous time system described by the equation  $y(t) = x(t^2)$  comes under y of -

causal, linear and time-variant

al, non-linear and time-varying

al, linear and time-varying

causal, non-linear and time-variant

ier series for the function  $f(x) = \sin^2(x)$  is:

- · 0.5 sin 2x
- · 0.5 cos 2x
- 0.5 sin 2x
- $\cdot$  0.5 cos 2x

Question ID: 97675512123

= 500, then the value of  $x^x$  is-

Question ID: 97675512130

characterized by the differential equation  $\frac{d^2y(t)}{dt^2} - \frac{dy}{dt} - 2y(t) = x(t)$  is –

linear and stable

ar and unstable

linear and unstable

ar and stable

**TEACHERS** 



Ouestion ID: 97675512125

of statement P(n): 1.6 + 2.9 + 3.12 +...... + n(3n + 3)

- · 1) (n + 2)
- 1) (n + 2) (n + 3)
- · 6)
- 3) (n + 6)

ical ascending method the value of 1+2+3+...... + n is \_\_\_\_\_.

- 1) (n+2)
  - 2
- n+1)
- 1+1)
- -1) (n+2) 3

Question ID: 97675512149

value of n, the statement  $P(n):n! \leq (\frac{n+1}{2})^n$  , is true? Where n is a 'hole number.

Question ID: 9767551215

following improper integral is convergent?

$$\frac{1}{\log x} dx$$

$$\frac{1}{\sqrt{x}(x+1)} dx$$

$$\frac{\sqrt{x}}{\log x} \ dx$$

$$\frac{1}{1-\cos x} dx$$

Question ID: 97675512146

mm of the statement is  $\left(1+\frac{1}{1}\right)\left(1+\frac{1}{2}\right)\left(1+\frac{1}{3}\right)....\left(1+\frac{1}{n}\right)$  is-

- $-1)^2$
- $+\frac{1}{n}$

```
ral {}^{1}\int_{0} \frac{x^{3} \cos 3x}{2+x^{2}} lies between?
and \frac{1}{2}
 and 1
and \frac{3}{2}
and \frac{1}{3}
                                                                                  Question ID: 97675512142
ment (xn-yn) is divisible by -
(+y)
^{2}+y^{2})
y)
+y)(x-y)
f the following is true?
] \rightarrow R be defined by
(-1)^{r-1}, when \frac{1}{r+1} < x \le \frac{1}{r}, r = 1, 2, 3, \dots
                                     when x = 0
ot integrable in [0, 1]
ntegrable on [0, 1], but f in bounded
ntegrable on [0, 1], but f in unbounded
ntegrable on [0, 1]
```

ent is true?  $<\left(\frac{n+1}{2}\right)^n$  $> \left(\frac{n+1}{2}\right)^n$  $<\left(\frac{n}{2}\right)^n$ > (n)<sup>n</sup> Question ID: 97675512157  $^{/2}$  x  $^{n}$  sin x dx , n>1, then  $I_{n}$  + n(n-1)I  $_{n-2}$  is equal to : Question ID: 97675512147 .2! + 3.3! + n.n! = (n + 1)! - 1, then P(n) statement is true -1 > 1 1 > 4ıll negative values of n ıll values of n Question ID: 97675512152  $an^n x dx$ , (n>1).  $I_{4+}I_6 = a tan^5 x + bx^5 + c$ , where c is a constant of 1, then the order pair (a, b) is equal to- $\left(\frac{1}{5}, -1\right)$ 

(0,

the inequality is true?

$$< 1\int_0^{1} e^{x^2} dx < 1$$

$$\int_{0}^{1} e^{x^{2}} dx < \frac{1}{2}$$

$$< 1 \int_0^{\infty} e^{x^2} dx < 1$$

$$< 1\int_0 e^{x^2} dx \le e$$

Question ID: 97675512141

following improper integral is convergent?

$$\frac{1}{x^2} dx$$

$$\frac{1}{\sqrt{x}}dx$$

$$\frac{1}{x^3} dx$$

$$\frac{1}{x^{3/2}}dx$$

## **TEACHERS**

Question ID: 97675512143

of the differential equation (2D+1)2y = 0 is -

$$= (A + B) e^{-x/2}$$

$$= (A + Bx) e^{-x/2}$$

$$= (A + Bx) e^{-x}$$

$$=$$
 Ae- $x/2$ 

Question ID: 97675512160

ion of the differential equation  $x^2 \frac{d^2y}{dx^2} - 3x \frac{dy}{dx} + 4y = 0$  is:

$$= (c_1 + c_2 \log x) x$$

$$= (c_1 + c_2 \log x) e^x$$

ement (52n-1) is always divisible by-

Question ID: 97675512154

 $1 = 1.2 + 2.2^2 + 3.2^2 + \dots + 2^2 = 1.2^2 =$ 

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

Question ID: 97675512156

 $2^{n+2}$ ) is divisible by



 $: \mid x \mid,$  then for any real numbers a and b with  $a \le b$  ,the value dx equals -

- $a^3 b^3$ )
- $a^3 + b^3$ )
- |b|3-|a|3)
- $|b^3 a^3|$ )

of onto homomorphism from  $Z_8$  to  $Z_4$  is-

Question ID: 97675512177

a solution of the differential equation  $x^2$  y'' + xy' - y = 0, then linearly independent solution of the above equation is –

Question ID: 97675512168

t -  $\alpha$ ), then the differential equation satisfying the relation is -

$$= -m^2x$$

### $= 1 - x^2$

$$\frac{c}{c} = m^2 x$$

$$\frac{x}{2} = -\alpha^2 x$$

**TEACHERS** 

adda 241

Question ID: 97675512166

:  $^{2n-1}P_n = 3:5$ , then what is the value of n?

ogroup of a group G and K be a normal subgroup of a group G, then -

- ${\mathfrak s}$  normal subgroup of HK  $\cap$  KH
- a normal subgroup of HK
- a normal subgroup of KH

not a normal subgroup of HK

Question ID: 97675512170

(G',\*) be two groups and f:  $G \rightarrow G'$  be a homomorphism, then f (G)

cyclic subgroup of G' is commutative

cyclic subgroup of G' if G may not be cyclic

cyclic subgroup of G'

t a cyclic subgroup of G' if G is cyclic

Question ID: 97675512171

group such that  $a^2 = c$  for all  $a \in G$ , then G is:

- abelian group

ian Group

# **TEACHERS**

Question ID: 97675512175

 $\sqrt{3x} + c_2 \sin \sqrt{3x} + c_3 e^{2x}$  is the general solution of-

$$\frac{c}{2} + 4y = 0$$

$$\frac{7}{1} - 2 \frac{d^2y}{dx^2} + \frac{dy}{dx} - 2y = 0$$

$$\frac{c}{3} + x \frac{dx}{dy} - 3x = 0$$

$$\frac{x}{2} + 8y = 0$$

Question ID: 97675512161

(G', \*) be two finite groups and  $\Phi: G \rightarrow G'$  be an epimorphism then -

is not a divisor of O(G')

, 2, 3, 4, 5 and 6 how many numbers between 3000 and 4000 can be made if d be repeated?

Question ID: 97675512180

re group G is simple if and only if -

- = n, n is a positive integer
- = n, n is an even integer
- = n, n is an odd integer
- = n, n is a prime integer

Question ID: 97675512176

cular integral of  $(D^2 + a^2)y = \sin ax$   $(D \equiv \frac{d}{dx})$  is –

 $\frac{x}{2a}\cos ax$ 

cos ax

 $\frac{a}{2}$  cos ax

cos ax



Question ID: 97675512162

 $(G', {}^{\star})$  be two groups and  $\Phi \colon G \to G'$  be a epimorphism. Then  $\Phi$  is an if and only if-

- $\triangleright \subset \{eG'\}$
- $\triangleright \subset \{eG\}$
- Þ = { eG'}
- Þ = { eG}

#### following is not true?

G be a group in which  $(ab)^3 = a^3 b^3$  for all  $a, b \in G$ , then  $\{x^3 : x \in G\}$  is normal subgroup of G

nutative subgroup of a group is normal subgroup of the group

I is normal subgroup of a finite group G, then [G:H] = 2.

G is non – commutative group of order 2p, p is prime and re exists at least one element a of order p, then <a> is normal in G.

Question ID: 97675512169

independent solutions of the differential equation  $4\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 5y = 0$ 

2 cos x and ex/2 sin x

 $^{2}\cos x$  and  $e^{-x/2}\sin x$ 

 $c/2 \cos x$  and  $e^{x/2} \sin x$ 

 $c/2\cos x$  and  $e^{-x/2}\sin x$ 

Question ID: 97675512167

r solution of differential equation  $\frac{d^2y}{dx^2} - \frac{dy}{dx} - 2y = \cos x + 3 \sin x$  is-

adda 247

Question ID: 97675512164

ous mapping of compact metric space X into a metric space Y then:

niformly continuous

ot continuous

a jump at  $x = \theta$ 

step function

Question ID: 97675512179

1 solution of the differential equation  $\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = e^x \cos x$  is-

$$+c_2 x)e^{-x} + \frac{e^x}{25} (4 \sin x + 3 \cos x)$$

$$+ c_2 x)e^{-x} + \frac{e^x}{4} (4 \sin x + 3 \cos x)$$

$$+ c_2 x)e^{-x} + \frac{e^x}{9} (4 \sin x - 3 \cos x)$$

$$+ c_2 x + \sin x)e^{-x}$$

Question ID: 97675512165

on of the differential equation is  $\frac{d^2y}{dx^2} - 3\frac{dy}{dx} + 2y = e^{3x}$  is-

$$= c_1 e^x + c_2 e^{-2x} + \frac{1}{2} e^{3x}$$

$$= c_1 e^{-x} + c_2 e^{2x} + \frac{1}{2} e^{-3x}$$

= 
$$c_1 e^x + c_2 e^{-2x} + \frac{1}{2} e^{-3x}$$

$$= c_1 e^x + c_2 e^{2x} + \frac{1}{2} e^{3x}$$

nit vector which is paralleled to the addition

etors 
$$\overrightarrow{r_1} = 3\overrightarrow{i} - 2\overrightarrow{j}$$
 and  $\overrightarrow{r_2} = -4\overrightarrow{i} + 4\overrightarrow{j}$ 

$$(-i - 2j)$$

$$5(i^{3}+2j^{3})$$

$$5(-i^{3}+2j^{3})$$

$$(i \rightarrow 2j)$$

Question ID: 97675512191

up of 11 cricketers. 4 can bat and 7 can bowl. In how many ways can a group s be selected if the group has at least one batsman and bowler?

Question ID: 97675512185

 $(\vec{x} + \vec{a}) = 8$  and  $\vec{a}$  is a unit vector, then  $\vec{x}$  will have value of:



 $f(x) = x \sin(1/x)$ , if x = 0 and f(0) = 1 has discontinuity at \_\_\_\_\_

Question ID: 97675512186

Ins can be repeated, then in how many ways a line can be made from six '+'  ${\bf r}$  '-' signs?

and (-√3, √3) are vectors of: celes triangle ateral triangle near points t angle triangle Question ID: 97675512193 6 and  ${}^{n}C_{r} = 56$ , then what is the value of n and r? , r = 2 , r = 3 4, r = 4r = 8Question ID: 97675512184 f Matrix  $S = \left\{ \begin{pmatrix} 2a & 0 \\ 0 & 2b \end{pmatrix} : a, b \in \mathbb{Z} \right\}$  containsors of zero without unity ors of zero with unity visors of zero with unity visors of zero without unity Question ID: 97675512200 on-zero vector of magnitude 'a' and  $\lambda$  is ) scalar, then  $\lambda \vec{a}$  is unit vector if - $\lambda$ = 1 : -1 Question ID: 97675512196 2 then what is the value of m?

 $^{25}C_{2r+1}$ , then what is the value of  $^{r}C_{5}$ ?

Question ID: 97675512183

vals in which the function f given by strictly increasing  $f(x) = 2xx^2 - 3x$ :

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3

,00

), 3/4

Question ID: 97675512197

 $A(-2i^{3}+3j^{3}+5k^{3}), B(i^{3}+2j^{3}+3k^{3}), C(7i^{3}-k^{3})$  are-

near

ned a equilateral triangle

ned a Right angle triangle

Collinear

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tors  $pi^{\rightarrow} + 2j^{\rightarrow}$  and  $3i^{\rightarrow} - 3j^{\rightarrow}$  are aligned, then what is the value of p?

Question ID: 97675512190

of the distinct permutation of letters in JUXTAPOSED do the four vowels come

160

00

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i-vectors of point A, B, C and D are 3i^{3} - j^{3}, 2i^{3} + 2j^{3}, -2i^{3} - 3j^{3}, -4i^{3} + 3j^{3},
such that AB || CD, then what is the ratio of their modulus?
                                                                                Question ID: 97675512189
per of diagonals of a polygon whose number of sides is "n".
!)(n - 5)/3
3)/2
1)/2
(n-2)/3
                                                                                Question ID: 97675512187
\times \mathbb{Z}_{2,+,.}) forms a ring of module 2 such that (a, b) + (c, d)
+ d) and (a, b) (c, d) = (a.c, b.d) for (a, b), (c, d) \in \mathbb{Z}_2 \times \mathbb{Z}_2 then-
a commutative ring with unity and it contains divisor of zero
a commutative ring with unity and it contains no divisor of zero
a commutative ring without unity and it contains no divisor of zero
a non commutative ring with unity and it contains divisor of zero
                                                                                Question ID: 97675512198
sition-vectors of A and B are 8i +3j and 2i -5j,
mine the direction of AB vector-
<sup>1</sup> (-3/5)
^{1}(3/5)
(-5/3)
(5/3)
                                                                                Question ID: 97675512192
a commutative ring with unity, then the polynomial ring R |x| is-
n commutative ring without unity
nmutative ring with unity
```

 $\{x\} \rightarrow \mathbf{R}$  defined by  $f(x) = \frac{x+1}{x+2}$ ,  $\forall x \in \mathbf{R} - \{-2\}$  is an example of -

onal Function

um Function

ulus Function

nomial Function

Question ID: 97675512202

### the following is TRUE?

sequence {n cos 1/n} has a convergent sequence

/ sequence that has a convergent subsequence is a Cauchy sequence

sequence (sin n) has a convergent subsequence

, sequence that has a convergent sequence is a bounded sequence

Question ID: 97675512210

the following ring of matrix is not a field?

$$\begin{bmatrix} a & b \\ -b & a \end{bmatrix} : a, b \in \mathbb{R}$$

$$\begin{bmatrix} i & b \\ b & a \end{bmatrix}$$
:  $a, b \in Q$ 

$$\begin{bmatrix} a & b \\ b & a \end{bmatrix} : a, b \in \mathbb{R}$$

$$\begin{pmatrix} a & b \\ 2b & a \end{pmatrix}$$
:  $a, b \in Q$ 

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Question ID: 97675512207

e a convergent series of positive terms and let  $\Sigma V_n$ gent series of positive terms. Then

sequence  $\{V_n\}$  diverges to  $\infty$ 

h the sequences  $\{U_n\}$  and  $\{V_n\}$  are convergent

sequence  $\{U_n\}$  is convergent and the sequence  $\{V_n\}$  is divergent

e sequence  $\{U_n\}$  converges to 0

te matrix  $A = \begin{pmatrix} 40 & -29 & -11 \\ -18 & 30 & -12 \\ 26 & 24 & -50 \end{pmatrix}$  has a certain eigen value

ch of the following must be eigen value of A?

0

0

λ

-λ

Question ID: 97675512218

 $\operatorname{al} \int_0^\infty \operatorname{Sinx} dx -$ 

s and is equal to 0

s and is equal to 1

s and is equal to -1

not exist

Question ID: 97675512220

 $\sum_{n=1}^{\infty} \left[ \frac{1}{\sqrt{n}} + \frac{(-1)^n}{n^{3/2}} \right]$ is -

latory

gent

ided

ergent

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adda 241

Question ID: 97675512212

be a sequence of real number such that  $\lim_{n\to\infty} \mathbf{U_n}$  exists, then

 $\operatorname{I}_{n o \infty} \operatorname{U}_{2n}$  does not exist but  $\lim_{n o \infty} \operatorname{U}_{2n+1}$  exists

h lim  $_{n \to \infty} U_{2n}$  and  $\lim_{n \to \infty} U_{2n+1}$  do not exist

 $U_{n\to\infty}$   $U_{2n}$  exists but  $\lim_{n\to\infty} U_{2n+1}$  does not exist

th  $\lim_{n\to\infty} U_{2n}$  and  $\lim_{n\to\infty} U_{2n+1}$  exist

) be the set of all 2x2 matrices, then  $(M_2(\mathbf{R}), +, .)$  is -

nmutative ring without zero divisors

n commutative ring with zero divisors

nmutative ring with zero divisors

n commutative ring without zero divisors

Question ID: 97675512205

$$\operatorname{ral} \int_0^\infty \frac{|\sin x|}{x} \, dx$$

t convergent

solutely convergent

/ergent

nvergent but not absolutely

Question ID: 97675512219

units in a ring R with unity forms \_\_\_

tegral domain

Н

g with unity

oup with respect to multiplication

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Question ID: 97675512201

 $\frac{U_n}{n} = 1 \neq 0$ , then the sequence  $\{U_n\}$ 

or may not be bounded

t bounded

nvergent

unded

Question ID: 97675512214

sidue classes (mod m) is an integral domain if m is:

е

:ural number

teger

ional number

Ice 
$$\left\{P + \frac{(-1)^n q}{n}\right\}$$
 islatory gent punded ided

nce  $\left\{2 + (-1)^n\right\}$  hastly one constant subsequence thy two constant subsequence onstant subsequence thy three constant subsequence

Question ID : **97675512211** 

Question ID: 97675512208

### +, .) is an integral domain if and only if:

ositive integer

odd prime

bbc

orime

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Question ID: 97675512204

$$\left(\frac{3}{2}, \frac{4}{3}, \dots, \frac{n+1}{n}\right)^{1/n}$$
 is equal to

$$f\lim_{n\to\infty}\frac{1}{n}\bigg[\Big(\frac{1}{2}\Big)^n+\Big(\frac{1}{2}\Big)\Big(\frac{1}{2}\Big)^{n-1}+\cdots+\Big(\frac{1}{n}\Big)\Big(\frac{1}{2}\Big)\bigg]\ is$$

following ring is an integral domain? Z, +, .) .) +, .) ۲, .) Question ID: 97675512203 zero n x n real matrix with  $n \ge 2$ . Which of the following statements is true?  $(M) = 0 \Rightarrow rank(M) = 0$  $k(M) = n \Rightarrow det(M) \neq 1$  $k(M) = 1 \Rightarrow det(M) \neq 0$  $(M) = 1 \Rightarrow rank(M) \neq 0$ Question ID: 97675512217 /lethodology following subject/s Mathematics is a part of? graphy, Economics and Commerce omics merce Question ID: 97675512226 "Mathematics is the language in which God has written the universe"? shal Stone bhatta eo Galilei and Russell Question ID: 97675512221 the following is not a problem-solving strategy in mathematics? learning ing and error ng backwards

the following statements is correct? of two prime numbers is always a prime number e is no even prime numbers he smallest prime number mposite number cannot be odd Question ID: 97675512235 llowing invented the letter system? - Bhatta- I argupta ımagupta anta Question ID: 97675512228 hematics was coined byayoreans amasciour abactus anorean Question ID: 97675512227 earning is an alternative to petitive models hing models oteaching on plan Question ID: 97675512233 bjectives have been divided into domains domains e domains domains

rue about lesson plan? ves from haphazard teaching developed by students ps in orderly delivery to content velops confidence in teacher Question ID: 97675512224 following is not related to early number concept? surement sification ervation 3 inclusion Question ID: 97675512230 the following is not a mathematical process? ıorization nation surement alization Question ID: 97675512237 is underlying team teaching is igle teacher cannot control the class pest teachers in schools are shared by more students hers are not competent hers feel bore while marking alone Question ID: 97675512232 ibiting difficulty in sorting, recognising pattern, orienting numbers and shape, nd measurement may have dyscalculia with difficulty in al motor coordination uage processing al motor skills

al memory

Piaget when the child is at formal operational stage, it is appropriate to netry handling bers and proportion Question ID: 97675512238 matics teacher is one who urages convergent thinking ins helpful, insightful and explain things well 3 only a lot of problems to practice with ws the same method always Question ID: 97675512222 tics classroom emphasis is placed on nematical content process and reasoning nematical content nematical algorithm and process lem solving strategies Question ID: 97675512239 of students in cooperative learning groups are o Fifteen t to ten e to four to Six Question ID: 97675512234 following is/ are not the principle of Curriculum-construction of mathematics? rity of theory with practice siple of unit ıld not be child-centric principle of preparation for life Question ID: 97675512225

iollowing is /are true regarding the aims of teaching mathematics? a good ability to solve problem the ability to make decision a good understanding of numbers and number system

1 and 3

and 3

1 and 2

2 and 3

Question ID: 97675512223

 ${\tt istructional}$  objectives are best described in terms of the terminal behaviour  ${\tt n}$  the learners"?

it Samele

ert Miller's

ert Wadra

ert Mager

