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OAVS TGT

**Previous Year Paper
(Maths) 20 May, 2019
Shift 2**





ODISHA ADARSHA VIDYALAYA SANGATHAN

Participant ID	
Participant Name	
Test Center Name	
Test Date	20/05/2019
Test Time	2:30 PM - 5:50 PM
Subject	TGT Maths

Section : Language Proficiency Test

Q.1 Identify the error in the sentence given below.

Einstein was 16, two years younger then his fellow applicants.

Ans 1. Two years younger

2. No improvement.

3. Einstein was 16,

4. Then his fellow applicants.

Question ID : 16794325602

Status : Not Answered

Chosen Option : --

Q.2 Change the voice:

I had read a book.

Ans 1. A book was read by me

2. A book had been read by me

3. A book is read by me

4. A book has been read by me

Question ID : 16794325593

Status : Answered

Chosen Option : 2

Q.3 Antonym of: Handicap

Ans 1. Disability

2. Aid

3. Injury

4. Advantage

Question ID : 16794325600

Status : Not Answered

Chosen Option : --

Q.4 A person who is 100 years or more is known as:

Ans 1. Denarian

- 2. Septuagenarian
- 3. Valetudinarian
- 4. Centenarian

Question ID : 16794325592

Status : Answered

Chosen Option : 4

Q.5 Change the following sentence into reported speech.

“I shall go for a walk tomorrow,” Jenny said.

Ans

- 1. Jenny said that she will go for a walk on the following day.
- 2. Jenny said that she should go for a walk tomorrow.
- 3. Jenny said that she will go for a walk tomorrow.
- 4.

Jenny said that she would go for a walk on the following day.

Question ID : 16794325586

Status : Answered

Chosen Option : 4

Q.6 Synonym of: Criticism

Ans

- 1. Guess
- 2. Opinion
- 3. Estimation
- 4. Praise

Question ID : 16794325598

Status : Not Answered

Chosen Option : --

Q.7 A young person who behaves in an extremely noisy and violent manner in public.

Ans

- 1. Extempore
- 2. Ubiquitous
- 3. Garrulous
- 4. Hooligan

Question ID : 16794325584

Status : Not Answered

Chosen Option : --

Q.8 Spot the error:

Gandhiji's elder brother always wear a golden bangle on his arm.

Ans

- 1. Always wear
- 2. On his arm.
- 3. Gandhiji's elder brother
- 4. A golden bangle on his arm.

Question ID : 16794325599

Status : **Answered**

Chosen Option : 1

Q.9 Choose an appropriate meaning of this idiom.

A hot potato

Ans 1. A sensitive or a controversial issue that is difficult to handle
 2. Possible obstacle in your path.
 3. Something that is easy to understand or do.
 4. Avoiding the main topic

Question ID : 16794325596

Status : **Answered**

Chosen Option : 1

Q.1 Identify the misspelt word:

Ans 1. Defenselessness
 2. Hyacinth
 3. Exuberant
 4. Platyhelminthes

Question ID : 16794325583

Status : **Answered**

Chosen Option : 1

Q.1 Identify a correctly spelled word:

Ans 1. Mystification
 2. Implication
 3. Exaggeration
 4. Extension

Question ID : 16794325594

Status : **Not Answered**

Chosen Option : --

Q.1 Fill in the blank with the appropriate word.

_____ mail that I received yesterday was from my friend.

Ans 1. No article
 2. A
 3. The
 4. An

Question ID : 16794325597

Status : **Answered**

Chosen Option : 3

Q.1 Change the voice of the following sentence:

The beggar was laughed at by the boys.

Ans 1. The boys laugh at the beggar.

2. The boys can laugh at beggar.

3. The boys has laughed at the beggar.

4. The boys laughed at the beggar.

Question ID : 16794325588

Status : Answered

Chosen Option : 4

Q.1
4 Meaning of : Hold up

Ans 1. To delay

2. To keep a promise

3. To prevent

4. To approve

Question ID : 16794325595

Status : Not Answered

Chosen Option : --

Q.1
5 Fill in the blanks with the appropriate words.

He sat _____ and saw that he was _____ the foot of a vast precipice.

Ans 1. up, at

2. on, in

3. on, at

4. under, on

Question ID : 16794325601

Status : Answered

Chosen Option : 3

Q.1
6 What does the phrasal verb “run across” mean?

Ans 1. To experience difficulties

2. To try to catch somebody

3. To attack somebody

4. To meet somebody by chance

Question ID : 16794325585

Status : Answered

Chosen Option : 4

Q.1
7 Rearrange the shuffled sentence into a meaningful one.

Autobiography bears the appropriate Nelson Mandela's title The Long walk to Freedom.

Ans 1.

Nelson Mandela's autobiography the appropriate title bears The Long Walk to Freedom.

2.

The appropriate title The Long Walk to Freedom bears Nelson Mandela's autobiography

3.

The title appropriate Long Walk to Freedom bears Nelson Mandela's autobiography.

4.

Nelson Mandela's autobiography bears the appropriate title The Long Walk to Freedom.

Question ID : 16794325590

Status : Answered

Chosen Option : 2

Q.1 Fill in the blank with the appropriate word.
8

A host, of golden daffodils;
Beside the lake, beneath the trees,
Fluttering and dancing _____ the breeze.

Ans 1. Through

2. In

3. Into

4. To

Question ID : 16794325589

Status : Not Answered

Chosen Option : --

Q.1 Identify the error in the sentence given below.
9

The child was so sick that she cannot walk to the clinic.

Ans 1. That she cannot walk

2. The child was so sick

3. To the clinic.

4. No error.

Question ID : 16794325587

Status : Not Answered

Chosen Option : --

Q.2 Change the following sentence into Quoted speech.
0

I said to him, "She was baking a chocolate pie".

Ans 1. I told him that she is baking a chocolate pie.

2. I told him that she was baking a chocolate pie.

3. I told him that she had been baking a chocolate pie.

4. I told him that she has been baking a chocolate pie.

Question ID : 16794325591

Status : Answered

Chosen Option : 3

Q.2 ଯେ ଖାଇବାକୁ ରଜା କରେ - ଏକ ପଦରେ ପ୍ରକାଶ କର ।
1

Ans 1. ବୁଦ୍ଧିଷ୍ଠ

2. ବୁଦ୍ଧିଷ୍ଠା

3. ଖାଦ୍ୟକୁ

4. ଖାଇବାବାଳା

Question ID : 16794325603

Status : Answered

Chosen Option : 1

Q.2 2 ମୁକ୍ତ ବିପରୀତ ଶବ୍ଦଟି ଲେଖ ।

Ans 1. ବାଚାଳ
 2. ଅନ୍ଧ
 3. ଅମ୍ବଳ
 4. ବଧୁର

Question ID : 16794325607

Status : Answered

Chosen Option : 1

Q.2 3 'ଅମୃତର ସତାନ' - କେଉଁ ଧର୍ମୀ ସ୍ଥଳ ?

Ans 1. ପୁରାଣ
 2. ଆଦିବାସୀ
 3. ସନ୍ଦର୍ଭ
 4. ବିଜ୍ଞାନ

Question ID : 16794325617

Status : Not Answered

Chosen Option : --

Q.2 4 'ଅଳି'ର ପ୍ରତିଶବ୍ଦିକୁ ଲେଖ ।

Ans 1. ଛୁଟିକା
 2. ଭ୍ରମର
 3. ମଧୁମକ୍ଷା
 4. ମାଛି

Question ID : 16794325620

Status : Not Answered

Chosen Option : --

Q.2 5 ହାତେ ପାପି ଚାଖେଣେ ଚାଲ । ରେଣେକିତ ପଦଚିକି ପ୍ରକାର କ୍ରିୟା

Ans 1. ସମୟସ୍ଥଳକ
 2. ନାମଧାରୁ କ୍ରିୟା
 3. ଅସମାପିକା କ୍ରିୟା
 4. ସମାପିକା କ୍ରିୟା

Question ID : 16794325609

Status : Not Answered

Chosen Option : --

Q.2 6 ମୃଣ୍ଣୟ- ସନ୍ଧିବିଜେଦ କର ।

Ans 1. ମୃତ୍ୟୁ + ମଧ୍ୟ
 2. ମୃତ୍ୟୁ + ମଧ୍ୟ

- 3. ମୂ + ଶ୍ଵୟ
- 4. ମୃଣ୍ଣ + ମୟ

Question ID : 16794325610

Status : Answered

Chosen Option : 1

Q.2₇ ଆପଣ ନିଶ୍ଚୟ ଆସିବେ ରେଖାକିତ ପଦଚି କେଉଁ ପ୍ରକାର ସର୍ବନାମ ।

Ans

- 1. କୌଣସି ନୁହେଁ
- 2. ନିର୍ଣ୍ଣୟକ
- 3. ନିର୍ଦ୍ଦେଶାମୂଳକ
- 4. ପୁରୁଷବାଚକ

Question ID : 16794325608

Status : Not Answered

Chosen Option : --

Q.2₈ 'ବାଜି' ଶବ୍ଦର ଅର୍ଥଲେଖ ।

Ans

- 1. ବାଘ
- 2. ହସ୍ତୀ
- 3. ଘୋଡା
- 4. ସିଂହ

Question ID : 16794325613

Status : Answered

Chosen Option : 3

Q.2₉ ଭିନ୍ନ ଅର୍ଥବୋଧକ ଶବ୍ଦଚି ବାକି ଲେଖ ?

Ans

- 1. ଦେହ
- 2. ଭାନୁ
- 3. ଶରାର
- 4. ତନୁ

Question ID : 16794325622

Status : Answered

Chosen Option : 2

Q.3₀ ଶବ୍ଦଚିର ଠିକ୍ ରୂପଚିକୁ ଲେଖ ।

Ans

- 1. ଅବଶୀଳନ
- 2. ଅବଶ୍ୟ
- 3. ଅବସନ୍ନ
- 4. ଅବସର୍ତ୍ତ

Question ID : 16794325612

Status : Answered

Chosen Option : 3

Q.3
1 ଶବ୍ଦଚିର ଠିକ୍ ରୂପଚିକ୍କୁ ଲେଖ ।

Ans 1. ଦାଶରଥୀ
 2. ଦାସରଥୀ
 3. ଦାସରଥୁ
 4. ଦାଶରଥୁ

Question ID : 16794325606

Status : Answered

Chosen Option : 1

Q.3
2 ବାତମୟ - ପ୍ରକୃତି ପ୍ରତ୍ୟେକ ଲେଖ ।

Ans 1. ବାକ୍ + ମୟ
 2. ବାତ୍ + ମୟ
 3. ବାମ୍ + ମୟ
 4. ବାନ୍ + ମୟ

Question ID : 16794325605

Status : Not Answered

Chosen Option : --

Q.3
3 “ସାଧୁତା” କେଉଁ ବାଚକ ବିଶେଷ୍ୟ ପଦ ?

Ans 1. ବସ୍ତୁ
 2. ଗୁଣ
 3. କ୍ରିୟା
 4. ନାମ

Question ID : 16794325621

Status : Answered

Chosen Option : 2

Q.3
4 ବାଆକୁବତା ରୁଦ୍ଧିଚିର ଅର୍ଥ ଲେଖ ।

Ans 1. ବାଆ ବେଳେ ବତା
 2. ବାଆ ବହିବା
 3. କୀର୍ତ୍ତି ଆଶ୍ରୟ
 4. ବତା ବାନ୍ଧିବା

Question ID : 16794325611

Status : Answered

Chosen Option : 3

Q.3
5 ରାଧାନାଥଙ୍କ କେଉଁ କାବ୍ୟ ଏକ ଖଣ୍ଡ ବାକ୍ୟ ?

Ans 1. ଚିଲିକା
 2. ଭକ୍ତା
 3. ଚନ୍ଦ୍ରଭାଗା

 4. ଦରବାର

Question ID : 16794325616

Status : Not Answered

Chosen Option : --

Q.3
6 ଚନ୍ଦ୍ର ଭାଗୀ କାବ୍ୟର ନାୟକ କିଏ ?

Ans  1. ସୂର୍ଯ୍ୟ
 2. ଯମାତି
 3. ଚନ୍ଦ୍ର
 4. ଯମ

Question ID : 16794325615

Status : Not Answered

Chosen Option : --

Q.3
7 ଓଡ଼ିଆ ସାହିତ୍ୟରେ ପ୍ରଥମ କ୍ଷୁଦ୍ର ଗନ୍ଧ କେଉଁ ?

Ans  1. ଡାକମୁନସୀ
 2. ରେବତୀ
 3. ପେଟେଗଂ ମେଡ୍ସିନ୍
 4. ମୌଳାମୌଳୀ

Question ID : 16794325618

Status : Answered

Chosen Option : 2

Q.3
8 ଦାନୀ+ଭରା-ଦାନ୍ତୁରା- ଏଠାରେ 'ଭରା' ପ୍ରତ୍ୟେ କେଉଁ ଅର୍ଥରେ ବ୍ୟବହାର ?

Ans  1. ଜାତ
 2. ସଦଶ
 3. ଅଛି
 4. ସମସ୍ତ

Question ID : 16794325604

Status : Answered

Chosen Option : 3

Q.3
9 ମହାମଣ୍ଡଳ ଗୀତା ଗୁରୁର ରଚ୍ୟତା କିଏ ?

Ans  1. ଜଗନ୍ନାଥ ଦାସ
 2. ଅର୍ଜୁତାନନ୍ଦ ଦାସ
 3. ଅରକ୍ଷିତ ଦାସ
 4. ଯଶୋବନ୍ତ ଦାସ

Question ID : 16794325619

Status : Answered

Chosen Option : 3

Q.4
0 ସୌଦିଯାଁ ଏକ _____ ପଦ ।

Ans 1. କୁଷା ବିଶେଷଣ
 2. ବିଶେଷଣ
 3. ସବ୍ରତାମ
 4. ବିଶେଷ୍ୟ

Question ID : 16794325614

Status : Answered

Chosen Option : 4

Section : Current Affairs & Reasoning

Q.1 Who has been named UNICEF's youngest-ever Goodwill Ambassador in 2018?

Ans 1. Millie Bobby Brown
 2. Priyanka Chopra
 3. Sally Hawkins
 4. Meryl Streep

Question ID : 16794325647

Status : Answered

Chosen Option : 1

Q.2 Which foreign citizen has been conferred the Padam Bhushan, 2019?

Ans 1. Subhash Kak
 2. Pravin Gordhan
 3. Kadar Khan
 4. Gita Mehta

Question ID : 16794325633

Status : Answered

Chosen Option : 4

Q.3 Which of the following country is a permanent member of the United Nations' Security Council?

Ans 1. Brazil
 2. Canada
 3. United Kingdom
 4. Germany

Question ID : 16794325650

Status : Not Answered

Chosen Option : --

Q.4 Which player created history and becomes 1st Indian to win BWF World Tour Finals tournament in 2018?

Ans 1. PV Sindhu
 2. Ashwini Ponnappa
 3. Saina Nehwal
 4. Jwala Gutta

Question ID : 16794325628

Status : Answered

Chosen Option : 1

Q.5 Which of the player has been conferred the Arjun Award, 2018 for contribution in Athletics?

Ans 1. P.V. Sindhu
 2. Neeraj Chopra
 3. Seema Punia
 4. Vinesh Phogat

Question ID : 16794325626

Status : Answered

Chosen Option : 2

Q.6 Which one out of the following teams won the Women's Hockey World Cup, 2018?

Ans 1. Ireland
 2. Germany
 3. Netherland
 4. Australia

Question ID : 16794325624

Status : Answered

Chosen Option : 4

Q.7 Who is the chairman of the University Grants Commission as on February 2019?

Ans 1. Sukhadeo Thorat
 2. D.P. Singh
 3. Arun S. Nigavekar
 4. Ved Prakash

Question ID : 16794325636

Status : Not Answered

Chosen Option : --

Q.8 Which of the following is not a benefit under the Pradhan Mantri Jan-Dhan Yojana?

Ans 1. No minimum balance required
 2. Interest on deposit
 3. Easy Transfer of money across India
 4. Accidental insurance cover of ₹ 5.00 lac

Question ID : 16794325641

Status : Answered

Chosen Option : 2

Q.9 Recently a strategic agreement COMCASA, (Communications Compatibility and Security Agreement) has been signed between _____ in 2018.

Ans 1. India and France
 2. India and Russia
 3. India and Israel
 4. India and USA

Question ID : 16794325652

Status : Not Answered

Chosen Option : --

Q.1 Which city hosted the AIBA Women's World Boxing Championships, 2018?

0 Ans 1. New York

2. New Delhi

3. Beijing

4. Paris

Question ID : 16794325623

Status : Not Answered

Chosen Option : --

Q.1 Who has unanimously chosen as the next president of the World Bank on April 5, 2019?

1 Ans 1. David Malpass

2. Phillip G. Kiko

3. Daniel J. Stordel

4. Will Plaster

Question ID : 16794325648

Status : Not Answered

Chosen Option : --

Q.1 Which of the following author won the Man Booker Prize, 2018?

2 Ans 1. George Saunders

2. Paul Beatty

3. Marlon James

4. Anna Burns

Question ID : 16794325630

Status : Answered

Chosen Option : 4

Q.1 Who has been conferred the National Award for Best Actress, 2018?

3 Ans 1. Tabu

2. Deepika Padukone

3. Alia Bhatt

4. Sridevi

Question ID : 16794325629

Status : Answered

Chosen Option : 3

Q.1 Which of the following country is going to host the ICC World Cup (Men) T20 in 2020?

4 Ans 1. South Africa

2. India

3. Australia

4. England

Question ID : 16794325625
Status : Answered
Chosen Option : 2

Q.1 Which of the following award is considered as the Noble Award of Asia?
5

Ans 1. The Pulitzer Award
 2. The Ramon Magsaysay Award
 3. Indira Gandhi Award for International Justice and Harmony
 4. The Asian Awards

Question ID : 16794325632
Status : Answered
Chosen Option : 2

Q.1 Which country is the largest supplier of crude oil to India in the April-October 2018 period?
6

Ans 1. Iraq
 2. Iran
 3. Saudi Arabia
 4. UAE

Question ID : 16794325651
Status : Not Answered
Chosen Option : --

Q.1 Which of the following is the largest source of Electricity generation (utility sector) in India in FY 2017-18?
7

Ans 1. Coal
 2. Nuclear
 3. Solar
 4. Hydro

Question ID : 16794325639
Status : Not Answered
Chosen Option : --

Q.1 In 2018, The Central Government of India has invoked _____ of the RBI Act for the first time in history of RBI.
8

Ans 1. Section 7
 2. Section 4
 3. Section 5
 4. Section 9

Question ID : 16794325643
Status : Not Answered
Chosen Option : --

Q.1 Which one out of the followings is appointed as the Governor of Bihar in 2018?
9

Ans 1. Kaptan Singh Solanki
 2. Ganga Prasad
 3. Lalji Tandon

 4. N.N. Vohra

Question ID : 16794325635

Status : Answered

Chosen Option : 3

Q.2 0 The Sahitya Akademi Awards are given _____ languages in 2018?

Ans  1. 21
 2. 24
 3. 22
 4. 23

Question ID : 16794325634

Status : Answered

Chosen Option : 3

Q.2 1 India ranked as the _____ most innovative nation in the world by World Intellectual Property Organization in 2018.

Ans  1. 49th
 2. 57th
 3. 32nd
 4. 65th

Question ID : 16794325640

Status : Answered

Chosen Option : 2

Q.2 2 What is dimension of the new banknote of ₹ 100?

Ans  1. 60 mm × 140 mm
 2. 56 mm × 132 mm
 3. 66 mm × 142 mm
 4. 76 mm × 152 mm

Question ID : 16794325642

Status : Not Answered

Chosen Option : --

Q.2 3 In which year, India is/will going to celebrate the 150th birth anniversary of Mahatma Gandhi?

Ans  1. 2020
 2. 2017
 3. 2019
 4. 2018

Question ID : 16794325638

Status : Answered

Chosen Option : 3

Q.2 4 Who has been awarded the Dada Saheb Phalke Award, 2018?

Ans  1. Shatrughan Sinha
 2. Vinod Khanna

3. Jeetendra
 4. Amitabh Bachchan

Question ID : 16794325631

Status : Answered

Chosen Option : 1

Q.2 Which countries have been visited by the President of India in March-April 2019?
5

Ans 1. England and France
 2. Egypt and Sudan
 3. Croatia, Bolivia and Chile
 4. USA and Canada

Question ID : 16794325649

Status : Not Answered

Chosen Option : --

Q.2 Which of the following is responsible for administering Small Industries Development Fund and National Equity Fund?
6

Ans 1. SIDBI
 2. Axis Bank
 3. NABARD
 4. Finance Ministry

Question ID : 16794325645

Status : Not Answered

Chosen Option : --

Q.2 When the Prime Minister of India launched Make in India Yojna?
7

Ans 1. 2015
 2. 2013
 3. 2014
 4. 2017

Question ID : 16794325646

Status : Answered

Chosen Option : 1

Q.2 The Crisil Ratings Agency forecasts the India's GDP growth rate is likely to _____ in 2019-20.
8

Ans 1. 7.5 per cent
 2. 7.3 per cent
 3. 6.5 per cent
 4. 8.1 per cent

Question ID : 16794325644

Status : Not Answered

Chosen Option : --

Q.2 Which athlete created history in 2018 after becoming the first Indian to win a gold medal in the track event of a world
9 championships?

Ans

- 1. Sudha Singh
- 2. P.T. Usha
- 3. Hima Das
- 4. Tintu Lukka

Question ID : 16794325627

Status : Answered

Chosen Option : 3

Q.3 Who is the National Security Adviser as on March 2019?

Ans

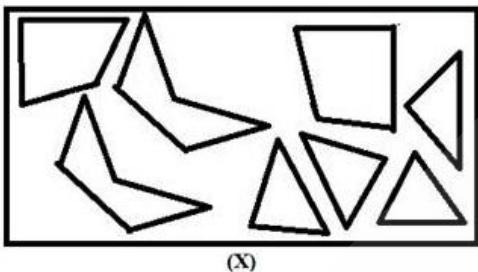
- 1. B.S. Dhanoa
- 2. Ajit Doval
- 3. Pankaj Saran
- 4. Bipin Rawat

Question ID : 16794325637

Status : Not Answered

Chosen Option : --

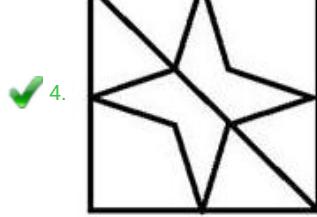
Q.3 Find out which of the figures can be formed from the pieces given in figure X



(X)

Ans

- 1.
- 2.
- 3.



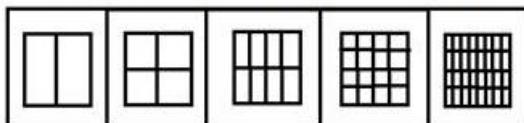
✓ 4.

Question ID : 16794325673

Status : Not Answered

Chosen Option : --

Q.3 Identify the rule that the following figure series follows from the options:
2



Ans ✗ 1.

Number of shaded parts inside the square increasing and number of lines outside are increasing in same number

✗ 2. Number of lines decreasing

✓ 3.

Each sub part of the figure is divided in to two equal halves in each level

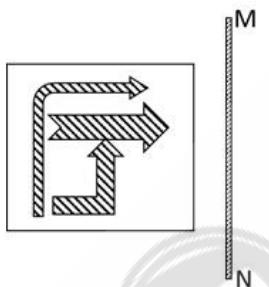
✗ 4. Number of circles increasing more and more

Question ID : 16794325676

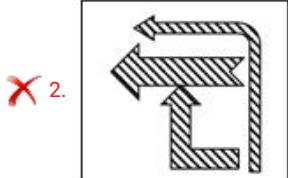
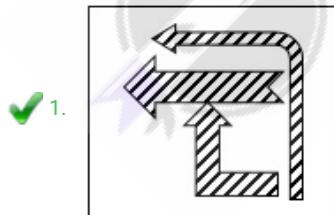
Status : Answered

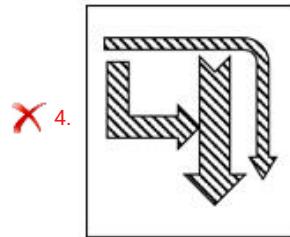
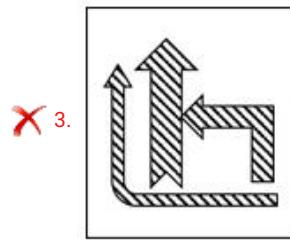
Chosen Option : 3

Q.3 Identify the mirror image for the following figure where MN represents the mirror:
3



Ans





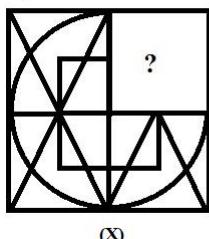
Question ID : 16794325678

Status : Answered

Chosen Option : 2

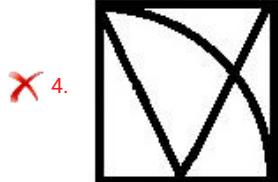
Q.3 Select a figure from amongst the four alternatives which when placed in the blank space of figure (X) would complete

4 the pattern:



(X)

Ans



Question ID : 16794325677

Status : Answered

Chosen Option : 2

Q.3

5 A farmer had 16 Sheep and 12 Hen. All but 7 Sheep and all but 7 Hen dead in cyclone. What would be the total number of legs of the remaining Sheep and Hen which are alive?

Ans 1. 40
 2. 46
 3. 36
 4. 42

Question ID : 16794325671

Status : Answered

Chosen Option : 2

Q.3 Identify the analogues word to replace ‘?’ as per the relation of first pair of words?
6 Cardiology: Heart :: Nephrology: ?

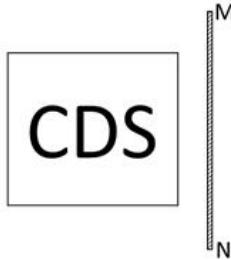
Ans 1. Liver
 2. Nerves
 3. Kidney
 4. Viruses

Question ID : 16794325666

Status : Answered

Chosen Option : 3

Q.3 Identify the mirror image for the following figure where MN represents the mirror:
7



Ans

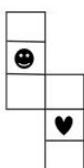
1. SDC
 2. CD2
 3. CDS
 4. SDC

Question ID : 16794325679

Status : **Answered**

Chosen Option : 3

Q.3 A paper as shown in the figure is folded into the form of a cube then which of the options could represent 8 visible faces of the cube formed?



Ans

✓ 1.

✗ 2.

✗ 3.

✗ 4.

Question ID : 16794325674

Status : **Answered**

Chosen Option : 1

Q.3 Which of the two conclusions can be concluded on the basis of given statements?
9 Statement:

All benches are chairs. No chair is a rack.

Conclusions:

1. No Bench is a rack
2. All chairs are Benches

Ans ✗ 1. neither (1) nor (2) follows

✗ 2. Both (1) & (2) follow

✓ 3. Only conclusion (1) follow

✗ 4. Only conclusion (2) follows

Question ID : 16794325668

Status : **Answered**

Chosen Option : 3

Q.4 Harjeet is fifteenth from the left end of a row of 26 boys and Darshan is fifteenth from the right end in the same row.
0 How many boys are there between them in the row?

Ans ✗ 1. 4

✓ 2. 2
✗ 3. 5
✗ 4. 3

Question ID : 16794325657

Status : Answered

Chosen Option : 4

Q.4 1 Choose the word which is least like others in the group

Ans ✗ 1. Spade
✗ 2. Scalpel
✓ 3. Rifle
✗ 4. Needle

Question ID : 16794325667

Status : Answered

Chosen Option : 3

Q.4 2 Read the statements and identify the logically correct conclusion from the given information.

Statement:
All the students in 'AAA' sections are sharp.
Vinayak is not sharp.
Conclusions:
1. Vinayak does not belong to 'AAA' section
2. Vinayak is intelligent

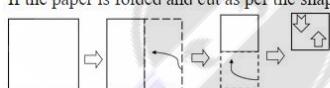
Ans ✓ 1. Only conclusion (1) follows
✗ 2. Neither (1) nor (2) follows
✗ 3. Both (1) & (2) follow
✗ 4. Only conclusion (2) follows

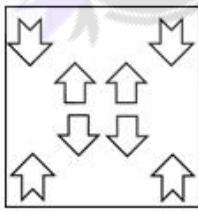
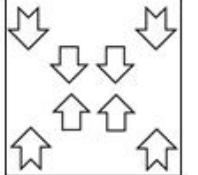
Question ID : 16794325670

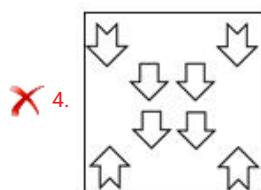
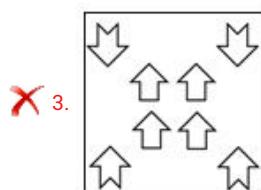
Status : Answered

Chosen Option : 1

Q.4 3 If the paper is folded and cut as per the shape given below, what would be the result look like after unfolding the paper?



Ans ✓ 1. 
✗ 2. 



Question ID : 16794325675

Status : Answered

Chosen Option : 1

Q.4 Read the following information carefully and answer the given question.

4 In Police officer's selection exams, six candidates were shortlisted according to their scores

The scores of the candidates are given as below:

- Kapil's score is higher than Laxman.
- Manish's score is less than Kapil.
- Nagesh's score is higher than Omar but lesser than Laxman.
- Pavan's score is higher than Kapil.

Then according to the scores secured who among them got least score?

Ans 1. Laxman

2. Pavan

3. Kapil

4. Omar

Question ID : 16794325661

Status : Answered

Chosen Option : 4

Q.4 In a certain code, RECIPE is written as FDMJOD. And SUGAR as TWLNF, how is PEACE written in that code?

5

Ans 1. OGCUT

2. ODNMD

3. NMCUT

4. DGCKL

Question ID : 16794325662

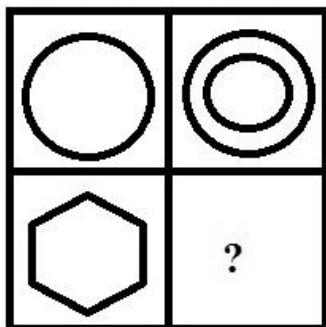
Status : Answered

Chosen Option : 2

Q.4

6

Which of the answer figures completes the following given figure matrix?



(X)

Answer figures set:



A B C D

Ans 1. D
 2. B
 3. C
 4. A

Question ID : 16794325680

Status : Answered

Chosen Option : 1

Q.4 In a certain coding system if B = 2, BEE = 12 and BAN = 17, Then what would be the code for the word RIDE = ?

7

Ans 1. 24
 2. 20
 3. 36
 4. 40

Question ID : 16794325663

Status : Answered

Chosen Option : 3

Q.4 The number of girls in a class is double that of number of boys in a class. Which one of the following number cannot
8 represent the total number students in the class?

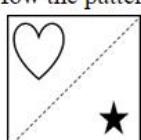
Ans 1. 36
 2. 48
 3. 37
 4. 42

Question ID : 16794325672

Status : Answered

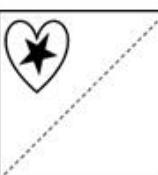
Chosen Option : 3

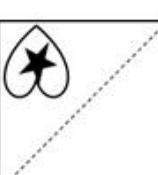
Q.4 How the pattern would appear when the transparent sheet is folded at the dotted line?
9

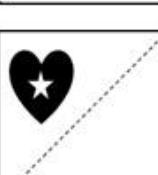


Ans

1. 

2. 

3. 

4. 

Question ID : 16794325682

Status : Answered

Chosen Option : 2

Q.5 Three words given below have something common among themselves. Out of given four alternatives choose the most

0 appropriate description about these words.

Diamond: Emerald: Garnet

Ans 1. They are the names of precious stones

2. They are names of the graphs used for data analysis

3. They are the metals used in armaments

4. They are the names of animals

Question ID : 16794325665

Status : Not Answered

Chosen Option : --

Q.5 There are Six stores adjacent to each other in a shopping complex viz., Pharmacy, Toy store, Vegetable shop, Novelty

1 Store, Pathology Lab and Grocery store, the arrangement of the stores are as given below:

Pharmacy is to the left of Pathology Lab, Toy store is to the left of Vegetable store and to the right of Pathology Lab,

Grocery Store is to the right of Vegetable store, Novelty store is located between Vegetable store and Grocery store.

What would be the Left most store in the shopping complex?

Ans 1. Pharmacy

2. Grocery Store

3. Toy Store

4. Vegetable Store

Question ID : 16794325660

Status : Answered

Chosen Option : 1

Q.5 Sindhu moved a distance of 60 m towards West. She then turned to the left and walking for about 45 m, then turned left

2 again and walked 50 m. Finally she turned to her right at an angle of 90 degrees and was walking. In which direction she was moving finally?

Ans

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

Question ID : 16794325659

Status : Answered

Chosen Option : 2

Q.5 Akhila is twelfth from the right end in a row of 50 girls. What is his position from the left end?
3

Ans 1. 37th
 2. 35th
 3. 39th
 4. 38th

Question ID : 16794325656

Status : Answered

Chosen Option : 3

Q.5 What could be the next term in the following series
4

S, A, I, Q, Y, G, ?

Ans 1. O
 2. K
 3. R
 4. L

Question ID : 16794325654

Status : Answered

Chosen Option : 1

Q.5 Which of the two conclusions can be concluded on the basis of given statements?
5

Statement:

1. Some chains are rings.
2. All the braces are rings.

Conclusions:

1. Some rings are braces.
2. Some ring are chains.

Ans 1. Neither (1) nor (2) follows
 2. Only conclusion (1) follows
 3. Only conclusion (2) follows
 4. Both (1) & (2) follow

Question ID : 16794325669

Status : Answered

Chosen Option : 4

Q.5 What could be the next term in the following series
6

LQD, KSC, JUB, IWA, ?

Ans

- 1. HYZ
- 2. PUM
- 3. ZKG
- 4. YCF

Question ID : 16794325655

Status : Answered

Chosen Option : 1

Q.5 Varun is facing South East. He turns 90° in the clockwise direction and then another 135° in the same direction and 7 then 225° in the anti-clockwise direction. Which direction is he facing now?

Ans 1. West

- 2. South East
- 3. North East
- 4. South

Question ID : 16794325658

Status : Answered

Chosen Option : 2

Q.5 8 What could be the missing term in the following series
6, 5, 51, ?, 501, 500, 5001

Ans 1. 511

- 2. 50
- 3. 510
- 4. 55

Question ID : 16794325653

Status : Answered

Chosen Option : 2

Q.5 9 In a certain coding system If BRAKE is written as DJZQA and COAL as KZNB, then how will HOUSE be written in that code?

Ans 1. RTCMA

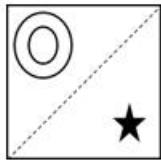
- 2. AGLVT
- 3. DRTNG
- 4. GCMTK

Question ID : 16794325664

Status : Answered

Chosen Option : 3

Q.6 0 ବାଞ୍ଚ ବା ପାଚନ୍ କିପରି ଦେଖାଯିବ ଯେତେବେଳେ ସ୍ଵର୍ଗ ପର୍ବତୀ କିମ୍ବା ରେଖାରେ ଚଢ଼ାଯିବ?



Ans

1.

2.

3.

4.

Question ID : 16794325681
 Status : Answered
 Chosen Option : 4

Section : Subject Content & Methodology

Q.1 The minute hand of a clock is 14cm long. The area swept by it between 8.30am and 8.40am is:

Ans 1. 102.67cm^2
 2. 101.76cm^2
 3. 102.76 cm^2
 4. 101.67cm^2

Question ID : 16794325756
 Status : Answered
 Chosen Option : 1

Q.2 If $\frac{1}{b+c}, \frac{1}{a+c}, \frac{1}{b+a}$ are in A.P. then a^2, b^2, c^2 are in:

Ans 1. HP
 2. None of these
 3. GP
 4. AP

Question ID : 16794325715
 Status : Answered
 Chosen Option : 2

Q.3 The number 0.99999..... is expressed in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$ is equal to:

Ans 1. $\frac{9999}{10000}$

2. $\frac{99}{100}$
 3. 1
 4. $\frac{9}{10}$

Question ID : 16794325683
Status : Answered
Chosen Option : 3

Q.4 If $3x + 2y + z = 0$, $x + 4y + z = 0$, $2x + y + 4z = 0$, be a system of equations then:

Ans 1. system is inconsistent
 2. Determinant of the coefficient matrix is zero
 3.
it can be reduced to a single equation thus solution does not exist
 4. it has only trivial solution

Question ID : 16794325699
Status : Answered
Chosen Option : 4

Q.5 If a statistics professor tells his class: "All those who got 100 on the statistics test got 20 on the mathematics test, and all those that got 100 on the mathematics test got 20 on the statistics test", he is saying that the correlation between the statistics test and the mathematics test is:

Ans 1. Negative
 2. 0
 3. 0.5
 4. Positive

Question ID : 16794325775
Status : Not Answered
Chosen Option : --

Q.6 Two supplementary angles are in the ratio 2:3, the angles are:

Ans 1. $72^\circ, 108^\circ$
 2. $60^\circ, 120^\circ$
 3. $78^\circ, 102^\circ$
 4. $52^\circ, 128^\circ$

Question ID : 16794325728
Status : Answered
Chosen Option : 1

Q.7 PA and PB are tangents to the circle with centre O, from a point P outside the circle and A and B are points on the circle. If angle $APB = 38.5^\circ$, then angle OAB is equal to:

Ans 1. 19.25°
 2. 50.25°
 3. 25.5°
 4. 38.5°

Question ID : 16794325730

Status : Answered

Chosen Option : 1

Q.8

The value of the limit $\lim_{x \rightarrow 0} \left(\frac{2^x - 1}{(1+x)^{\frac{1}{2}} - 1} \right)$ is equal to:

Ans 1. $-2 \log 2$
 2. 0
 3. 1
 4. $2 \log 2$

Question ID : 16794325741

Status : Answered

Chosen Option : 4

Q.9

The value of $({}^{15}C_0^2 - {}^{15}C_1^2) + {}^{15}C_2^2 - \dots - {}^{15}C_{15}^2$ is:

Ans 1. -15
 2. 0
 3. 15
 4. 1

Question ID : 16794325720

Status : Answered

Chosen Option : 2

Q.10

The area of triangle formed by the vertices A(3,2), B(11,8) and C(8,12) is:

Ans 1. 21 sq units
 2. 25 sq units
 3. 24 sq units
 4. 20 sq units

Question ID : 16794325746

Status : Answered

Chosen Option : 2

Q.11

The area of a pathway which is in the shape of a ring with outer circumference 416m and inner circumference 376 m is:

Ans 1. 2550 m^2
 2. 2520 m^2
 3. 2500 m^2
 4. 2450 m^2

Question ID : 16794325754

Status : Not Answered

Chosen Option : --

Q.12

The square matrix A is called orthogonal if:

Ans

1. $A' = A^{-1}$

2. $A = A^2$

3. $AA^{-1} = I$

4. $A = A^{-1}$

Question ID : 16794325697

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.1 3 The value of a if 17th and 18th terms in the expansion of $(2+a)^{50}$ are equal is:

Ans 1. 1

2. 0

3. 2

4. -1

Question ID : 16794325721

Status : Answered

Chosen Option : 4

Q.1 4 If the point (x, y) is equidistant from the point (a + b, b - a) and (a-b, a+b), then which of the following holds:

Ans 1. $bx=ay$

2. $bx + ay = 0$

3. $by + ax = 0$

4. $by = ax$

Question ID : 16794325743

Status : Answered

Chosen Option : 1

Q.1 5 The mean and variance of 8 observations are 6 and 8 respectively. If some of these observations are 3, 5, 6, 8, 9, 10 then the remaining two observations are:

Ans 1. 1,5

2. 1,6

3. 2,4

4. 3,1

Question ID : 16794325770

Status : Answered

Chosen Option : 2

Q.1 6 The product of a non-zero rational number and an irrational number is a/an:

Ans 1. Natural number

2. Irrational number

3. Rational number

4. zero

Question ID : 16794325684

Status : Answered

Chosen Option : 2

Q.1
7 The value of $\int_0^{\pi/2} \frac{x}{\sin x + \cos x} dx = ?$

Ans 1. $\frac{\pi}{2\sqrt{2}} \log |\sqrt{2} + 1|$

2. $\frac{\pi}{2\sqrt{2}} \log |\sqrt{2} - 1|$

3. 0

4. $\frac{\pi}{2\sqrt{2}} \log |\sqrt{2} + 1|$

Question ID : 16794325737

Status : Answered

Chosen Option : 2

Q.1 The following table shows the number of seats reserved in different classes in a train on five different days. The
8 capacity of each class is given in the bracket. Study the table and answer the questions 99 to 101:

Day	2 nd Class Non-AC (900)	1 st Class Non-AC (500)	AC III Tier (500)	AC II Tier (250)	AC 1 st Class (150)
Monday	750	410	390	240	145
Tuesday	820	400	450	230	120
Wednesday	730	360	480	220	130
Thursday	640	480	490	190	122
Friday	700	490	495	210	140

How many seats remained vacant on Monday, Tuesday and Friday in all the classes?

Ans 1. 930

2. 920

3. 910

4. 935

Question ID : 16794325765

Status : Answered

Chosen Option : 3

Q.1 From a point P on a level ground, the angle of elevation of the top tower is 30° . If the tower is 170 m high, the distance
9 of point P from the foot of the tower is: (use $\sqrt{3}=1.73$)

Ans 1. 274.1m

2. 284.1m

3. 175m

4. 294.1m

Question ID : 16794325757

Status : Answered

Chosen Option : 4

Q.2 The values of p and q for which the following system of equations has infinite number of solutions
0 2x + 3y = 7; (p + q)x + (2p - q)y = 21 is equal to:

Ans 1. p = 5, q = -1

2. $p = -5, q = 1$
 3. $p = 5, q = 1$
 4. $p = -5, q = -1$

Question ID : 16794325706

Status : Answered

Chosen Option : 3

Q.2 If the r^{th} , $(r+1)^{\text{th}}$ and $(r+2)^{\text{th}}$ terms in the expansion of $(1+x)^{14}$ are in A.P., then the value of r is given by:
₁

Ans 1. 7
 2. 10
 3. 8
 4. 9

Question ID : 16794325742

Status : Answered

Chosen Option : 1

Q.2 Arithmetic mean is 15 and all sum of observations is 315 then number of observations are:
₂

Ans 1. 15
 2. 23
 3. 19
 4. 21

Question ID : 16794325764

Status : Answered

Chosen Option : 4

Q.2 If in each examination, the ratio of number of girl to number of boys in each subject is 3:2, what is the ratio of the
₃ number of girls in Mathematics in A to number of boys in Psychology in B?

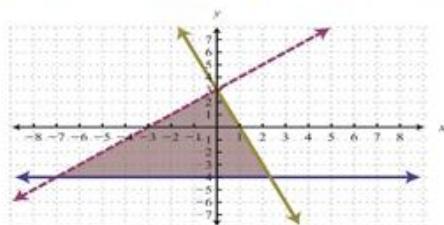
Ans 1. 20:33
 2. 33:10
 3. 33:20
 4. 10:33

Question ID : 16794325767

Status : Not Answered

Chosen Option : --

Q.2 The shaded region in the graph is shown by the inequalities:
₄



Ans 1. $y \leq -4; y < x + 3; y \leq -3x + 3$
 2. $y \geq -4; y < x + 3; y \geq -3x + 3$
 3. $y \leq -4; y < x + 3; y \geq -3x + 3$

✓ 4. $y \geq -4$; $y < x + 3$; $y \leq -3x + 3$

Question ID : 16794325704

Status : Not Answered

Chosen Option : --

Q.2 Two coconuts have spherical space inside their kernels, with the first having an inner diameter twice that of the other.

5 The larger one is half filled with liquid, while the smaller is completely filled. Which of the following statements is correct?

Ans ✗ 1.

The larger coconut contains twice the liquid in the smaller one.

✗ 2.

The smaller coconut contains twice the liquid in the larger one.

✓ 3.

The larger coconut contains 4 times the liquid in the smaller one.

✗ 4. The coconuts contain equal volumes of liquid.

Question ID : 16794325782

Status : Answered

Chosen Option : 3

Q.2 In which subject the number of students appeared in Examination A and B is equal?
6

Ans ✓ 1. History in A and Psychology in B

✗ 2. Psychology in A and History in B

✗ 3. Mathematics in A and English in B

✗ 4. Mathematics in B and English in A

Question ID : 16794325768

Status : Not Answered

Chosen Option : --

Q.2 7 If $x = \frac{1}{\sin \theta} - \frac{\cos \theta}{\sin \theta}$ and $y = \frac{1}{\sin \theta} + \frac{\cos \theta}{\sin \theta}$ then which of the following is true.

Ans ✓ 1. $xy = 1$

✗ 2. $x - y = 1$

✗ 3. $x + y = 1$

✗ 4. $x - y = 0$

Question ID : 16794325760

Status : Answered

Chosen Option : 1

Q.2 8 If $f(x) = 3e^{x^3}$ then $f'(x) - 3x^2f(x) + \left(\frac{1}{3}\right)f(0) - f'(0)$ is equal to:

Ans ✗ 1. 0

✓ 2. 1

✗ 3. e^{-x^2}

✗ 4. e^{x^2}

Question ID : 16794325724

Status : Answered

Chosen Option : 4

Q.2 The perimeter of a triangle field is 450m and the sides are in the ratio 13:12:5, the area of triangle is:

9

Ans 1. 6250m^2
 2. 6000m^2
 3. 6500m^2
 4. 6750m^2

Question ID : 16794325747

Status : Answered

Chosen Option : 4

Q.3 How many plane can be made to pass through three distinct non-collinear points?

0

Ans 1. 3
 2. 1
 3. 2
 4. Infinite

Question ID : 16794325727

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.3 If $3a + 2b + 6c = 0$, the family of straight lines $ax + by + c = 0$ passes through a fixed point whose coordinates are given

1 by:

Ans 1. $\left(\frac{1}{3}, \frac{1}{2}\right)$
 2. $(2, 3)$
 3. $(3, 2)$
 4. $\left(\frac{1}{2}, \frac{1}{3}\right)$

Question ID : 16794325739

Status : Answered

Chosen Option : 4

Q.3 If sum of squares of zeros of the quadratic polynomial $f(x) = x^2 - 8x + k$ is 40, then the value of k is:

2

Ans 1. 12
 2. 8
 3. 14
 4. 10

Question ID : 16794325702

Status : Answered

Chosen Option : 1

Q.3 A chord PQ of a circle of radius 14 cm makes an angle of 30 degrees at the centre, the area of the major segment:

3

Ans 1. 600 cm^2

2. 633.67 cm^2
 3. 613.67 cm^2
 4. 623.76 cm^2

Question ID : 16794325753

Status : Not Answered

Chosen Option : --

Q.3 ₄ Achievement test are

Ans 1. Test of maximum performance
 2. Test of performance
 3. Test of minimum performance
 4. Test of natural performance

Question ID : 16794325779

Status : Answered

Chosen Option : 1

Q.3 ₅ In $\triangle ABC$, $\angle A = 35^\circ$, $\angle B = 45^\circ$, $\angle C = 100^\circ$. The angles of the triangle formed by joining the mid-points of the sides of this triangle are:

Ans 1. $45^\circ, 45^\circ, 90^\circ$
 2. $35^\circ, 45^\circ, 100^\circ$
 3. $30^\circ, 45^\circ, 105^\circ$
 4. $60^\circ, 60^\circ, 60^\circ$

Question ID : 16794325732

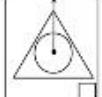
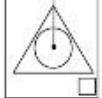
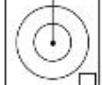
Status : Answered

Chosen Option : 2

Q.3 ₆ What is the next pattern in the given sequence?



Ans

1. 
 2. 
 3. 
 4. 

Question ID : 16794325780

Status : Not Answered

Chosen Option : --

Q.3 ${}_n^nP_5 = 20 {}_nP_3$ then the value of n is given by:

Ans 1. 6
 2. 8
 3. 4
 4. 2

Question ID : 16794325717

Status : Answered

Chosen Option : 2

Q.3 ${}_8^nP_8$ If mean is 11 and median is 13 then value of mode is:

Ans 1. 15
 2. 11
 3. 17
 4. 13

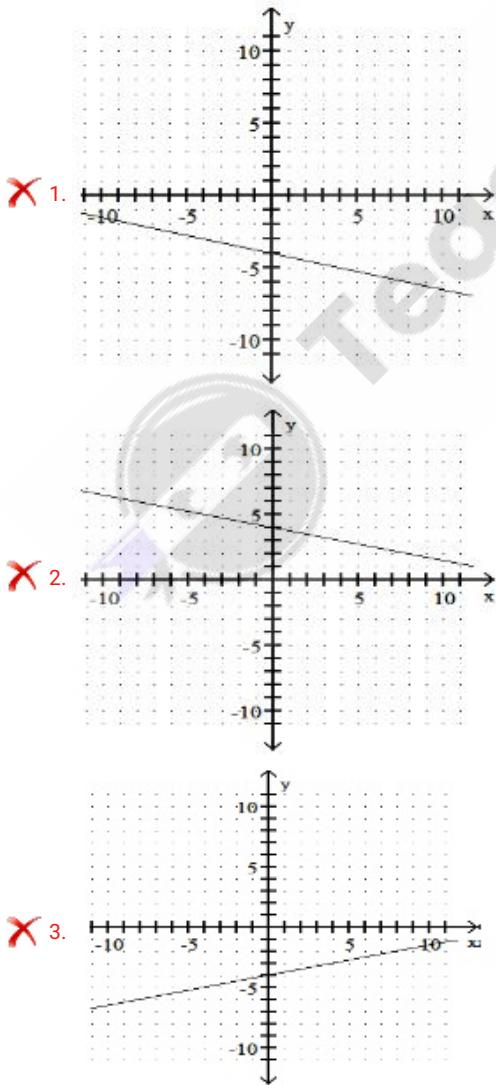
Question ID : 16794325762

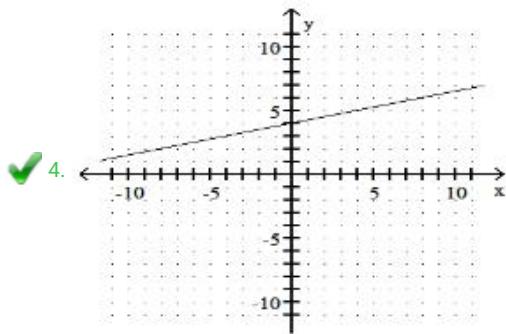
Status : Answered

Chosen Option : 3

Q.3 ${}_9^nP_9$ Graph of the line passing through point (0, 4) with slope of line as $\frac{1}{4}$ is:

Ans





✓ 4.

Question ID : 16794325705

Status : Answered

Chosen Option : 4

Q.4 0 The points $(0, -1)$, $(-2, 3)$, $(6, 7)$ and $(8, 3)$ are:

Ans 1. Collinear points
 2. Vertices of a Trapezium but not a parallelogram
 3. Vertices of a parallelogram which is not a square
 4. Vertices of a parallelogram which is not a rectangle

Question ID : 16794325735

Status : Answered

Chosen Option : 4

Q.4 1 If the angle A of a triangle ABC is given by the equation $3\cos A + 2 = 0$, $\sin A$ and $\tan A$ are the roots of the equation:

Ans 1. $6x^2 - 5\sqrt{5}x + 5 = 0$
 2. $6x^2 - \sqrt{5}x + 5 = 0$
 3. $6x^2 + \sqrt{5}x - 5 = 0$
 4. $6x^2 + 5\sqrt{5}x - 5 = 0$

Question ID : 16794325740

Status : Not Answered

Chosen Option : --

Q.4 2 For a certain type of mobiles, the length of time between charges of the battery is normally distributed with a mean of 50 hours and a standard deviation of 15 hours. A person owns one of these mobiles and wants to know the probability that the length of time will be between 50 and 70 hours is: (Given $\Phi(1.33) = 0.9082$, $\Phi(0) = 0.5$)

Ans 1. 0.5
 2. -0.5
 3. -0.4082
 4. 0.4082

Question ID : 16794325777

Status : Not Answered

Chosen Option : --

Q.4 3 If $y = 8 + 10 \cos 2x$ then which of the following is satisfied:

Ans 1. $-2 \leq y \leq 18$
 2. $-1 \leq y \leq 4$

3. $0 < y < 1$

4. $-1 \leq y \leq 1$

Question ID : 16794325716

Status : Answered

Chosen Option : 1

Q.4 4 If $f(x) = x \tan^{-1} x$ then $f'(1)$ is:

Ans

1. $\frac{\pi+2}{4}$

2. 1

3. 0

4. $\frac{\pi}{8}$

Question ID : 16794325736

Status : Answered

Chosen Option : 1

Q.4 5 The value of $\left[\frac{\sin^2 19^\circ + \sin^2 71^\circ}{\cos^2 24^\circ + \cos^2 66^\circ} + \sin^2 71^\circ + \cos 71^\circ \sin 19^\circ \right]$ is:

Ans

1. 1

2. 0

3. 2

4. -1

Question ID : 16794325758

Status : Answered

Chosen Option : 3

Q.4 6 If $6^n - 5^n$ is divisible by 25 then it always leave the remainder:

Ans

1. 3

2. 2

3. 0

4. 1

Question ID : 16794325734

Status : Answered

Chosen Option : 4

Q.4 7 If $f(x) = 1 + \frac{1}{x}$, then the value of $f\left(f\left(\frac{1}{x}\right)\right)$ is:

Ans

1. $\frac{-x}{x-1}$

2. $\frac{x+2}{x+1}$

3. $\frac{x}{x+1}$

4. x

Question ID : 16794325723
Status : Answered
Chosen Option : 2

Q.4 If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - px + q$, then the value of $\alpha^2 + \beta^2$ is:
8

Ans 1. $p^2 - 2q$
 2. $q^2 - 2p$
 3. $p^2 + 2q$
 4. $q^2 + 2p$

Question ID : 16794325701
Status : Answered
Chosen Option : 1

Q.4 The number of diagonals which can be drawn in a plane figure of 16 sides is:
9

Ans 1. 153
 2. 104
 3. 170
 4. 190

Question ID : 16794325719
Status : Not Answered
Chosen Option : --

Q.5 If n is an integer, when $(3n+3)^3$ is divided by 9 then remainder is equal to:
0

Ans 1. 3
 2. 0
 3. 2
 4. 1

Question ID : 16794325692
Status : Answered
Chosen Option : 2

Q.5 The coordinates of point which trisects the line segment joining (1,-2) and (-3,4) are:
1

Ans 1. $\left(\frac{1}{3}, 0\right), \left(\frac{5}{3}, 2\right)$
 2. $\left(\frac{-1}{3}, 0\right), \left(\frac{-5}{3}, 2\right)$
 3. $\left(\frac{1}{3}, 0\right), \left(\frac{-5}{3}, 2\right)$
 4. $\left(\frac{-1}{3}, 0\right), \left(\frac{5}{3}, 2\right)$

Question ID : 16794325744
Status : Answered
Chosen Option : 2

Q.5 The domain of $f(x) = 2\sin(\sqrt{(1 - x^2)}) - e^x + 2^{-x}$ is:
2

Ans 1. \mathbb{R}
 2. $\mathbb{R} - \{0\}$
 3. $x > 1$
 4. $-1 \leq x \leq 1$

Question ID : 16794325722

Status : Answered

Chosen Option : 4

Q.5 ₃ The value of k for which the equation has equal roots $(k-12)x^2 + 2(k-12)x + 2 = 0$ is:

Ans 1. $k = -14$
 2. $k = -12$
 3. $k = 13$
 4. $k = 14$

Question ID : 16794325712

Status : Answered

Chosen Option : 4

Q.5 ₄ The value of $\int_0^{\pi} \sin^7 x dx = ?$

Ans 1. $\frac{32\pi}{35}$
 2. $\frac{38\pi}{35}$
 3. $\frac{32}{35}$
 4. 0

Question ID : 16794325738

Status : Answered

Chosen Option : 4

Q.5 ₅ If X is a binomial variate with $p = 1/5$, for the experiment of 50 trials, then the standard deviation is equal to:

Ans 1. $2\sqrt{2}$
 2. $3\sqrt{2}$
 3. 2
 4. 3

Question ID : 16794325776

Status : Not Answered

Chosen Option : --

Q.5 ₆ The length of side of triangle are 5cm, 12 cm, 13 cm. The length of perpendicular from the opposite vertex to the side whose length is 13 cm is:

Ans 1. $\frac{60}{13}$ cm

2. $\frac{50}{13}$ cm

3. $\frac{70}{13}$ cm

4. $\frac{40}{13}$ cm

Question ID : 16794325748

Status : Answered

Chosen Option : 1

Q.5
7 Solve:

$$x = \frac{1}{2 - \frac{1}{2 - \frac{1}{2 - x}}}, x \neq 2$$

Ans 1. $x = 1, 1$

2. $x = -1, 1$

3. $x = 0, 1$

4. $x = -1, -1$

Question ID : 16794325711

Status : Answered

Chosen Option : 1

Q.5
8 The value of k for the probability density function of a variate X is equal to:

X	0	1	2	3	4	5	6
P(X)	k	2k	4k	6k	7k	8k	11k

Ans 1. 1

2. 0

3. $1/35$

4. $1/39$

Question ID : 16794325772

Status : Answered

Chosen Option : 4

Q.5
9 In a town there are 4 crossroads with traffic lights. Each traffic light opens or closes the traffic with the same probability

of 0.5, then the probability of a car crossing all the crossroads (4) without stopping is:

Ans 1. 0.0625

2. 0.025

3. 0.0125

4. 0.05

Question ID : 16794325771

Status : Not Answered

Chosen Option : --

Q.6
0 If $\sin^4 a - \cos^4 a = 1/3$ then what is the value of $1 - 2\cos^2 a$?

Ans 1. $1/3$

2. 0

3. $-1/3$
 4. 1

Question ID : 16794325759
Status : Answered
Chosen Option : 1

Q.6 If the slope of the regression line is calculated to be 2.5 and the intercept 16 then the value of Y when X is 4 is:
1

Ans 1. 29
 2. 18
 3. 33
 4. 26

Question ID : 16794325773
Status : Answered
Chosen Option : 4

Q.6 2 If $Y = -10X$ and $X = -0.1Y$, then correlation coefficient r is equal to:

Ans 1. 0
 2. -1
 3. 0.2
 4. 0.5

Question ID : 16794325774
Status : Not Answered
Chosen Option : --

Q.6 3 The product of the eigen values of the matrix is:

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 3 & -1 \\ 0 & -1 & 3 \end{bmatrix}$$

Ans 1. 3
 2. 1
 3. -1
 4. 8

Question ID : 16794325700
Status : Answered
Chosen Option : 4

Q.6 The three vertices of a parallelogram taken in order are $(-1,0)$, $(3,1)$ and $(2,2)$ respectively. The coordinate of fourth
4 vertex is:

Ans 1. $(-1,2)$
 2. $(1,2)$
 3. $(-2,-1)$
 4. $(-2,1)$

Question ID : 16794325745
Status : Answered
Chosen Option : 4

Q.6 Let $\phi(n)$ denotes the Euler totient function, then the value of $\phi(15)$ is equal to:

Ans 1. 8
 2. 2
 3. 12
 4. 4

Question ID : 16794325695

Status : Answered

Chosen Option : 1

Q.6 How many minimum number of square tiles are needed to cover a rectangular floor of dimension 6.25 m and 6 m
6 completely?

Ans 1. 500
 2. 550
 3. 600
 4. 525

Question ID : 16794325755

Status : Answered

Chosen Option : 3

Q.6 In two units of company, employees in unit one is 625 and monthly salary is ₹ 2730, employees in unit two are 725 and
7 monthly salary is ₹ 2520 then combined approximate arithmetic mean (in ₹) is:

Ans 1. 2617
 2. 2517
 3. 2618
 4. 2537

Question ID : 16794325761

Status : Not Answered

Chosen Option : --

Q.6 Let $\Delta ABC \sim \Delta PQR$ and $\frac{ar(\Delta ABC)}{ar(\Delta PQR)} = \frac{1}{16}$. If $AB = 12 \text{ cm}$, $BC = 6 \text{ cm}$ and $AC = 9 \text{ cm}$, then QP is equal to:

Ans 1. 16 cm
 2. 32 cm
 3. 48 cm
 4. 8 cm

Question ID : 16794325731

Status : Answered

Chosen Option : 3

Q.6 The value of $\int_{-2}^2 f(x)dx$, where $f(x) = 1 + 2x, x \leq 0$; $f(x) = 1 - 2x, x \geq 0$ is:

Ans 1. 4
 2. -4
 3. -2
 4. 0

Question ID : 16794325725

Status : Not Answered

Chosen Option : --

Q.7
0 The system of congruence
$$\begin{cases} x \equiv 1 \pmod{3} \\ x \equiv 4 \pmod{5} \\ x \equiv 6 \pmod{7} \end{cases}$$
 is equivalent to:

Ans 1. $x \equiv 32 \pmod{105}$
 2. $x \equiv 24 \pmod{105}$
 3. $x \equiv 12 \pmod{105}$
 4. $x \equiv 34 \pmod{105}$

Question ID : 16794325694

Status : Answered

Chosen Option : 4

Q.7
1 The organization of content in the text-book of mathematics should be:

Ans 1. According to teachers
 2. According to parents
 3. According to student
 4. According to curriculum

Question ID : 16794325778

Status : Answered

Chosen Option : 4

Q.7
2 What will be total cost (in ₹) of polishing curved surface of a wooden cylinder at rate of ₹ 25 per sq.m, if it has 30 cm diameter and 7 m height?

Ans 1. 185
 2. 165
 3. 200
 4. 175

Question ID : 16794325752

Status : Answered

Chosen Option : 2

Q.7
3 In a triangle ABC if $\angle A = 45^\circ$, $\angle B = 70^\circ$. Then the ratio of shortest and largest side is:

Ans 1. AC : BC
 2. AB : BC
 3. BC : AB
 4. BC : AC

Question ID : 16794325729

Status : Answered

Chosen Option : 1

Q.7
4 If the sum of n terms of an A.P. is 48, the first term is 20 and the common difference is -4, then the number of items is:

Ans 1. 12, 2
 2. 3, 8

3. 15, 5
 4. 6,4

Question ID : 16794325713

Status : Answered

Chosen Option : 2

Q.7 The remainder when the square of any prime number is greater than 3 is divided by 6 is:
5

Ans 1. 4
 2. 2
 3. 3
 4. 1

Question ID : 16794325689

Status : Answered

Chosen Option : 4

Q.7 In ΔABC , D, E, F are the mid points of side BC, CA and AB respectively. If $ar(\Delta ABC) = 16\text{cm}^2$ then $ar(\text{trapezium FBCE})$ is equal to:
6

Ans 1. 16cm^3
 2. 4cm^3
 3. 8cm^3
 4. 12cm^3

Question ID : 16794325733

Status : Answered

Chosen Option : 3

Q.7 The sum of two digit number and the number formed by interchanging the digits is 132, if 12 is added to the number
7 then the new number becomes 5 times the sum of the digits. The number is:

Ans 1. 84
 2. 46
 3. 64
 4. 48

Question ID : 16794325707

Status : Answered

Chosen Option : 4

Q.7 "The clue is hidden in this statement", read the note handed to A by B, who hid the stolen treasure in one of the ten
8 pebbles. Which pebble is it?

Ans 1. I
 2. X
 3. IX
 4. XI

Question ID : 16794325781

Status : Not Answered

Chosen Option : --

Q.7 If every sides of a triangle is doubled then increase in the area of the triangle is:
9

Ans 1. 400%

- 2. 200%
- 3. 100%
- 4. 300%

Question ID : 16794325749

Status : Answered

Chosen Option : 1

Q.8 For every natural number n , which of the following is satisfied:
0

Ans

- 1. $n \geq 2^n$
- 2. $n > 2^n$
- 3. $n = 2^n$
- 4. $n < 2^n$

Question ID : 16794325691

Status : Answered

Chosen Option : 4

Q.8 If n is a positive integer and $(n+1)(n+3)$ is odd, then $(n+2)(n+4)$ must be a multiple of which one from the 1 following:

Ans

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

Question ID : 16794325690

Status : Answered

Chosen Option : 4

Q.8 Which of the following is true?
2

Ans

- 1. $12^6 \bmod 7 \equiv 1$
- 2. $14^6 \bmod 7 \equiv 1$
- 3. $16^7 \bmod 8 \equiv 1$
- 4. $18^8 \bmod 9 \equiv 1$

Question ID : 16794325696

Status : Answered

Chosen Option : 1

Q.8 If in a class, 40% of the student study math and science and 60% of the student study math, then the probability of a 3 student studying science given that he/she is already studying math is:

Ans

- 1. 0.47
- 2. 0.67
- 3. 0.63
- 4. 0.55

Question ID : 16794325769

Status : Not Answered

Chosen Option : --

Q.8 The solution (x, y) of the simultaneous equations $px + qy + r = 0$, $lx + my + n = 0$, is given by:
4

Ans

1. $\frac{x}{nq-rm} = \frac{y}{pn-lr} = \frac{1}{pm-ql}$

2. $\frac{x}{mp-ql} = \frac{y}{pn-lr} = \frac{1}{qn-mr}$

3. $\frac{x}{nq-rm} = \frac{y}{lr-pn} = \frac{1}{pm-ql}$

4. $\frac{x}{pm-lq} = \frac{y}{pr-nl} = \frac{1}{pq-ml}$

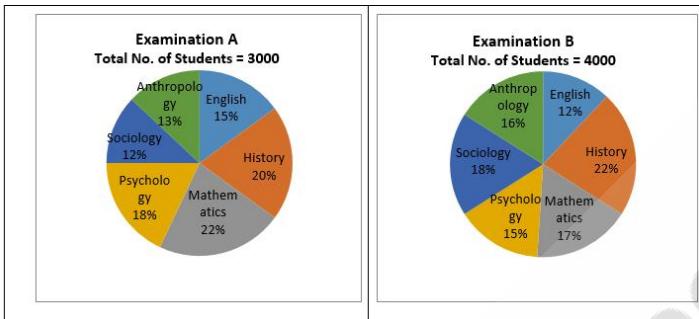
Question ID : 16794325708

Status : Answered

Chosen Option : 1

Q.8 The following pie-charts show the percentage-wise distribution of students appeared for six different subjects for two A

5 and B. Study the charts and answer the questions 102 to 104:



The number of students in English in both the examination is approximately what percentage of the number of students in Mathematics in both the examination?

Ans

1. 67%

2. 68%

3. 69%

4. 70%

Question ID : 16794325766

Status : Not Answered

Chosen Option : --

Q.8 6 If n is a natural number then $9^{2n} - 4^{2n}$ is always divisible by:

Ans

1. Only 36

2. Both 5 and 13

3. Only 5

4. Only 13

Question ID : 16794325688

Status : Answered

Chosen Option : 2

Q.8 7 A cube of side two meter length is cut into small cubes of side 20 cm each. How many such small cubes can be obtained?

Ans

1. 1

2. 1000

3. 100

 4. 10

Question ID : 16794325751

Status : Answered

Chosen Option : 2

Q.8 If a gymnastics coach has 77 gymnasts, their heights are as follows (in cm): 172, 8 173, 164, 178, 168, 169, 173, 172, 173, 164, 178, 168, 169, 173, then the average deviation of this data is:

Ans  1. 2.73
 2. 2.43
 3. 3.73
 4. 3.43

Question ID : 16794325763

Status : Not Answered

Chosen Option : --

Q.8 The parameter of a square is equal to the perimeter of a rectangle of length 15 cm and breadth 10 cm. The 9 circumference of a semicircle whose diameter is equal to the side of the square is equal to: ($\pi = 3.143$)

Ans  1. 18.858 cm
 2. 19.858 cm
 3. 16.858 cm
 4. 20.858 cm

Question ID : 16794325750

Status : Not Answered

Chosen Option : --

Q.9 The number of real roots of $2\sin x = 2^x + 2^{-x}$ is:

Ans  1. 0
 2. 3
 3. 2
 4. 1

Question ID : 16794325726

Status : Not Answered

Chosen Option : --

Q.9 The equation $\sqrt{x+1} - \sqrt{x-1} = \sqrt{4x-1}$ has:

Ans  1. one solution
 2. two solutions
 3. more than two solutions
 4. no solution

Question ID : 16794325710

Status : Answered

Chosen Option : 2

Q.9 The values of a and b so that $x^4+x^3+8x^2+ax+b$ is divisible by x^2+1 is equal to:

Ans  1. a=1; b=7
 2. a=-1; b=7

3. $a=-1; b=-7$

4. $a=1; b=-7$

Question ID : 16794325703

Status : Answered

Chosen Option : 1

Q.9 If the sum of p terms of an A.P. is equal to the sum of q terms ($p \neq q$), then the sum of ($p+q$) terms is:

3

Ans 1. 1

2. -1

3. 0

4. 2

Question ID : 16794325714

Status : Answered

Chosen Option : 2

Q.9 How many number of six digits which can be formed from the digits 4,5,6,7,8,9 no digits being repeated are not

4 divisible by 5?

Ans 1. 690

2. 540

3. 600

4. 780

Question ID : 16794325718

Status : Answered

Chosen Option : 3

Q.9 5 If α, β be the roots of the equation $ax^2 - bx + b = 0$ then the value of $\sqrt{\frac{\alpha}{\beta}} + \sqrt{\frac{\beta}{\alpha}}$ is equal to:

Ans

1. $\sqrt{\frac{a}{b}}$

2. $\sqrt{\frac{b}{a}}$

3. 1

4. 0

Question ID : 16794325709

Status : Answered

Chosen Option : 2

Q.9 6 If $a \neq 0$ or $b \neq 0$, then $\text{gcd}(a, b)$ exists and satisfying from the following condition:

Ans

1. $0 > \text{gcd}(a, b) > \min\{|a|, |b|\}$

2. $0 > \text{gcd}(a, b) < \min\{|a|, |b|\}$

3. $\text{gcd}(a, b) < 0$

4. $0 < \text{gcd}(a, b) < \min\{|a|, |b|\}$

Question ID : 16794325693

Status : Not Answered

Chosen Option : --

Q.9
7 If $\frac{9^n 3^2 (3^{(-n/2)})^2 - 27^n}{3^2 m_2^2} = \frac{1}{27}$, then m and n is related by:

Ans 1. $m=n$
 2. $m-n=1$
 3. $mn=1$
 4. $m+n=1$

Question ID : 16794325686

Status : Not Answered

Chosen Option : --

Q.9
8 If λ is an eigen value of a non-singular matrix A then the eigen value of A^{-1} is:

Ans 1. Λ
 2. $-1/\lambda$
 3. $-\lambda$
 4. $1/\lambda$

Question ID : 16794325698

Status : Answered

Chosen Option : 4

Q.9
9 If the HCF of 210 and 55 is expressed in the form $210x5+55y$, then the value of y is:

Ans 1. -19
 2. -17
 3. 19
 4. 17

Question ID : 16794325687

Status : Answered

Chosen Option : 1

Q.1
00 The value of $\frac{1}{3-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2}$ is equal to:

Ans 1. 5
 2. 3
 3. 2
 4. 1

Question ID : 16794325685

Status : Answered

Chosen Option : 4