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Previous Year Paper
Mathematics 1 April 2022





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Participant ID	
Participant Name	
Test Center Name	
Test Date	01/04/2022
Test Time	9:00 AM - 12:20 PM
Subject	TGT Mathematics

Section : Language Proficiency Test

Q.1 Select the most appropriate meaning of the underlined idiom.

The two parties came to blows over the selection of the President of the Residents' Association.

Ans 1. Began crying
 2. Tried to win
 3. Started fighting
 4. Became very noisy

Question ID : 9679475553
Status : Not Answered
Chosen Option : --

Q.2 Select the INCORRECTLY spelt word.

Ans 1. Aviation
 2. Extention
 3. Mansion
 4. Persuasion



Question ID : 9679475552
Status : Answered
Chosen Option : 3

Q.3 Select the option that expresses the given sentence in reported speech.

"As an actor my personal life does not remain personal," said Ananya to the audience.

Ans 1. Ananya had been saying to the audience that as an actor her personal life did not remain personal.
 2. Ananya told the audience that as an actor her personal life did not remain personal.
 3. Ananya told the audience that an actor's personal life was not remaining personal.
 4. Ananya says to the audience that as an actor her personal life does not remain personal.

Question ID : 9679475562
Status : Answered
Chosen Option : 2

Q.4 Select the most appropriate meaning of the underlined idiom.

It has been raining cats and dogs throughout this month.

Ans 1. Raining very little

2. Raining heavily

3. Many animals have been seen

4. Cats and dogs have been running around

Question ID : 9679475554

Status : Answered

Chosen Option : 2

Q.5 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. or care for their elderly
- B. economists have warned that
- C. they can lose them
- D. if people do not cook for their families

Ans 1. CDBA

2. BDAC

3. BCDA

4. DBAC

Question ID : 9679475564

Status : Answered

Chosen Option : 2

Q.6 Select the most appropriate ANTONYM of the given word.

Extravagant

Ans 1. Wasteful

2. Thrifty

3. Selfish

4. Prodigal

Question ID : 9679475550

Status : Not Answered

Chosen Option : --

Q.7 Select the option that expresses the given sentence in direct speech.

Karan said that it was as a schoolboy that he started playing chess.

Ans 1. Karan said, "I had been a schoolboy when I had started playing chess."

2. Karan says, "It is as a schoolboy that I have started playing chess."

3. Karan said, "It is as a schoolboy that I started playing chess."

4. Karan said, "It was as a schoolboy that I started playing chess."

Question ID : 9679475561

Status : Answered

Chosen Option : 3

Q.8 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

One of the book / written by the novelist / is very popular.

Ans 1. is very popular.

2. No error

3. written by the novelist

4. One of the book

Question ID : 9679475546

Status : Not Answered

Chosen Option : --

Q.9 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

You should always / be ready / to listened to others.

Ans 1. be ready

2. You should always

3. to listened to others.

4. No error

Question ID : 9679475545

Status : Answered

Chosen Option : 3

Q.10 Select the option that will improve the underlined part of the given sentence.

With little imagination, the architect could have designed the housing society well.

Ans 1. some

2. much

3. most

4. many

Question ID : 9679475559

Status : Answered

Chosen Option : 2

Q.11 Select the most appropriate option to fill in the blank.

The two brothers _____ to start manufacturing eco-friendly cutlery.

Ans 1. decides

2. have decide

3. is deciding

4. have decided

Question ID : 9679475547

Status : Answered

Chosen Option : 4

Q.12 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.

- A. when he received
- B. an electricity bill
- C. my father was shocked
- D. that ran into lakhs

Ans 1. BACD
 2. ABCD
 3. CBDA
 4. CABD

Question ID : 9679475563

Status : Answered

Chosen Option : 4

Q.13 Select the option that can be used as a one-word substitute for the underlined group of words.

Due to a long illness that keeps troubling her every now and then my grandmother remains confined to her bed.

Ans 1. A chronic illness
 2. A fantastical illness
 3. A chronological illness
 4. An euphoria

Question ID : 9679475556

Status : Answered

Chosen Option : 1

Q.14 Select the option that expresses the given sentence in active voice.

Buddha Jayanti Park has been cleared of the Vilayati Kikar trees by the forest department.

Ans 1. The forest department has cleared the Buddha Jayanti Park of the Vilayati Kikar trees.
 2. The forest department is clearing Buddha Jayanti Park of the Vilayati Kikar trees.
 3. The forest department has been cleared the Buddha Jayanti Park Vilayati Kikar trees.
 4. Buddha Jayanti Park has cleared the forest department of the Vilayati Kikar trees.

Question ID : 9679475560

Status : Answered

Chosen Option : 1

Q.15 Select the option that will improve the underlined part of the given sentence.

The reason to choose to Mumbai for further studies as my city did not have good colleges.

Ans 1. Reason about choosing to
 2. I chose going to
 3. Reason for choose to
 4. Reason for why I chose to

Question ID : 9679475558

Status : Not Answered

Chosen Option : --

Q.16 Select the INCORRECTLY spelt word.

Ans 1. Special
 2. Steble
 3. Stationary
 4. Survival

Question ID : 9679475551

Status : Answered

Chosen Option : 2

Q.17 Select the option that will improve the underlined part of the given sentence.

Unspeakable horrors would inflicted on the civilian population of European countries by Hitler's Nazis.

Ans 1. is inflicting upon
 2. were inflicted upon
 3. are inflict on
 4. would be inflict on

Question ID : 9679475557

Status : Not Answered

Chosen Option : --

Q.18 Select the most appropriate synonym of the given word.

Slender

Ans 1. Heavy
 2. Plump
 3. Transparent
 4. Slim

Question ID : 9679475549

Status : Not Answered

Chosen Option : --

Q.19 Select the most appropriate synonym of the given word.

Anxious

Ans 1. Glorious
 2. Cheerful
 3. Peaceful
 4. Worried

Question ID : 9679475548

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.20 Select the most appropriate one-word option to substitute the underlined segment in the given sentence.

Some countries in which the government is run by one person, who has absolute power, do not have much freedom.

Ans 1. Autocracy

2. Autonomy

3. Aristocracy

4. Democracy

Question ID : 9679475555

Status : Answered

Chosen Option : 1

Q.21 ଅତିଶୟ ଭାବରେ ଦୀପ ହେଉଥିବା - ଏହାକୁ ଏକ ପଦରେ ପ୍ରକାଶ କଲେ କଣ ହେବ ?

Ans 1. ଦେବୀଧ୍ୟମାନ

2. ଦୀପମାନ

3. ଅଦୀଧ୍ୟମାନ

4. ଅତି ଦୀପମାନ

Question ID : 9679475579

Status : Not Answered

Chosen Option : --

Q.22 ରାମ କହିଲା- ଦୁରି, ତୁ କେବେବେଳେ ଘରକୁ ଯିବୁ ?" ଏହାକୁ ପରୋକ୍ଷ ଉଚ୍ଚି କଲେ କଣ ହେବ ?

Ans 1. ରାମର ଶକ୍ତାନୁସାରେ ଦୁରି ଘରକୁ ଯିବ ।

2. ଦୁରି କେବେବେଳେ ଘରକୁ ଯିବ ବେଳି ରାମ ପଚାରିଲା ।

3. ଦୁରି କେବେବେଳେ ଘରକୁ ଯିବ, ରାମ ଜାଣିବା ଆବଶ୍ୟକ ।

4. ଦୁରି, ତୁ କେବେବେଳେ ଘରକୁ ଯିବୁ ? ରାମର ଉଚ୍ଚି ।

Question ID : 9679475583

Status : Answered

Chosen Option : 2

Q.23 କିମ୍ବାଇ କେହିଁ ଶବ୍ଦଟି 'ପବନ' ଶବ୍ଦକୁ ବୁଝାଏ ?

Ans 1. ଆକାଶ

2. ଅନଳ

3. ଅନିଳ

4. ଅନାଳ

Question ID : 9679475576

Status : Answered

Chosen Option : 3

Q.24 ଗୋପବନ୍ଧୁ ଅହର୍ନୀଶା ଓଡ଼ିଶା କଥା ଚିତ୍ରା କରୁଥିଲେ - ଏ ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦଟି ଅଣୁଦ ?

Ans 1. ଅହର୍ନୀଶା
 2. ଓଡ଼ିଶା
 3. ଗୋପବନ୍ଧୁ
 4. କରୁଥିଲେ

Question ID : 9679475567

Status : Answered

Chosen Option : 1

Q.25 ମାଆ କହିଲେ, “ପୁଅ, ନିଆଁ ପାଖକୁ ଯାଅନାହିଁ ।” - ଏହା କି ପ୍ରକାର ଉଚ୍ଚି ?

Ans 1. ପ୍ରତ୍ୟେକ ଉଚ୍ଚି
 2. ବକ୍ରୋତ୍ତି
 3. କରୁତ୍ତି
 4. ପରୋକ୍ଷ ଉଚ୍ଚି

Question ID : 9679475584

Status : Answered

Chosen Option : 1

Q.26 ‘ନିରପରାଧାକୁ ଦଣ୍ଡ ଦେବା ଉଚିତ ନୁହେଁ ।’ - ଏ ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦଟି ଅଣୁଦ ?

Ans 1. ନିରପରାଧା
 2. ଦଣ୍ଡ
 3. ନୁହେଁ
 4. ଉଚିତ

Question ID : 9679475565

Status : Answered

Chosen Option : 1

Q.27 ‘ସୁଧା’ର ଅର୍ଥ କଣ ?

Ans 1. ସୁଧା
 2. କଳତାର
 3. ଅମୃତ
 4. ଉଚମି ଧାରୁ

Question ID : 9679475571

Status : Answered

Chosen Option : 3

Q.28 ଏକତ୍ରି କାର୍ଯ୍ୟ କଲେ ସଫଳତା ମିଳିଥାଏ । ରେଖାକିତ ଶବ୍ଦରେ ଶୁଦ୍ଧରୂପ ଲେଖ ।

Ans

- 1. ଏକତ୍ର
- 2. ଏକାକୀ
- 3. ଏକତ୍ରିତ
- 4. ଏକତ୍ରୀତ

Question ID : 9679475568

Status : Answered

Chosen Option : 1

Q.29 'ଆପଣା ସୁନା ଭେଣ୍ଟି' ଗ୍ରହିତି କେଉଁ ଅର୍ଥ ପ୍ରକାଶ କରେ ?

Ans

- 1. ମିଳିବା ସୁନା ଭେଣ୍ଟି ପାଇବି ଯିବା
- 2. ନିଜିବା ଲୋକ ପରା ହେବା
- 3. ମିଳି ଲୋକ ଅଯୋଗ୍ୟ ହେବା
- 4. ଅଯୋଗ୍ୟ ଲୋକ ଯୋଗ୍ୟ ହେବା

Question ID : 9679475578

Status : Answered

Chosen Option : 3

Q.30 କିମ୍ବୁକ କେଉଁ ଶବ୍ଦରେ ବନାନଗତ ଅଣ୍ଟୁର୍ଣ୍ଣ ରହିଛି ?

Ans

- 1. ପୂର୍ଣ୍ଣମା
- 2. ସିଦ୍ଧରୀ
- 3. ମନ୍ତ୍ରନ
- 4. ମାନାକିନୀ

Question ID : 9679475574

Status : Not Answered

Chosen Option : --

Q.31 ଉପଯୁକ୍ତ ଶବ୍ଦ ବାରି ଶୂନ୍ୟ ସ୍ଥାନ ପୂରଣ କର ।

ଜଗିବା କାର୍ଯ୍ୟ ଯାହାର ତାକୁ _____ କୁହାଯାଏ ।

Ans

- 1. ଜଗୁଆ
- 2. ଜାଗୁଆଳି
- 3. ଜଗୁଆଳ
- 4. ଜାଗୁଆଳ

Question ID : 9679475570

Status : Answered

Chosen Option : 3

Q.32 ଦୁଇ ବା ତେବେଥିକ ପରିବାର ନିରାପତ୍ତି ସରଳ ବାକ୍ୟର ସଂଶୋଧନରେ ଯେଉଁ ବାକ୍ୟ ଗଠିତ ହୋଇଥାଏ, ତାହାକୁ କେଉଁ ପ୍ରକାର ବାକ୍ୟ କୁହାଯାଏ ?

Ans

- 1. ଯୌବନୀକ ବାକ୍ୟ
- 2. ମିଶ୍ର ବାକ୍ୟ
- 3. ସରଳ ବାକ୍ୟ
- 4. ଜାହିନ ବାକ୍ୟ

Question ID : 9679475580

Status : Answered

Chosen Option : 1

Q.33 କିମ୍ବାକ ଶବମାନକ ଭିତରୁ କେଉଁଟି ବ୍ୟାକରଣ ଦୃଷ୍ଟିରୁ ଠିକ ?

Ans

- 1. ମନମୁଖକର
- 2. ମନୋଭାବ
- 3. ମନଭାବ
- 4. ମନମାଳିନ୍ୟ

Question ID : 9679475575

Status : Not Answered

Chosen Option : --

Q.34 କିମ୍ବା ଶବମାନକ ମଧ୍ୟରୁ କେଉଁ ଶବ୍ଦଟି ଅଣୁତ ?

Ans

- 1. ଆତିଶ୍ୟ
- 2. ଅଭ୍ୟୟ
- 3. ଅଭ୍ୟାସ
- 4. ଅନ୍ତ

Question ID : 9679475566

Status : Answered

Chosen Option : 2

Q.35 'ଅମ୍ବୁତ' ଶବର ବିପରୀତାର୍ଥକ ଶବ୍ଦଟି କଣ ?

Ans

- 1. ବିଷ
- 2. ପାଦୁକ
- 3. ଜୀବିତ
- 4. ମୁର୍ତ୍ତ

Question ID : 9679475573

Status : Answered

Chosen Option : 1

Q.36 କିମ୍ବଳିଶୁତ କେଉଁ ଶବ୍ଦଟି ଅଣୁବ ହେଲେ ବି ବହୁ ପ୍ରତିକିତ ?

Ans

- 1. ପ୍ରାମାଣୀକ
- 2. ଉପରୋକ୍ତ
- 3. ଘଟନା
- 4. ବିମାଧରା

Question ID : 9679475569

Status : Not Answered

Chosen Option : --

Q.37 ଯେଉଁ ବାକ୍ୟରେ କ୍ରିୟାର ପ୍ରକୃତ ସାଧକ କର୍ତ୍ତ୍ତୁପଦ ହୋଇଥାଏ ଏବଂ କ୍ରିୟାପଦ ସେହି କର୍ତ୍ତାର ଅନୁଗ୍ରାମୀ ହୋଇଥାଏ, ତାକୁ କଣ କହନ୍ତି ?

Ans

- 1. କର୍ତ୍ତ୍ତୁବାଚ୍ୟ
- 2. କ୍ରିୟାବାଚ୍ୟ
- 3. କର୍ମବାଚ୍ୟ
- 4. ଭାବବାଚ୍ୟ

Question ID : 9679475581

Status : Not Answered

Chosen Option : --

Q.38 ଚତ୍ରି ପ୍ରୟୋଗରେ 'ଅରଣ୍ୟ ରୋଦନ' କେଉଁ ଅର୍ଥକୁ ପ୍ରକାଶ କରେ ?

Ans

- 1. ଜଙ୍ଗଳରେ ଆଲୋଚନା କରିବା
- 2. ଜଙ୍ଗଳରେ ରୋଦନ କରିବା
- 3. ଜଙ୍ଗଳରେ କାନ୍ଦିବା
- 4. ବୃଥା ପ୍ରାୟେନା କରିବା

Question ID : 9679475577

Status : Answered

Chosen Option : 4

Q.39 'ଦେବତା' ଶବ୍ଦ ବଦଳରେ କେଉଁ ଶବ୍ଦ ବ୍ୟବହାର କରାଯାଇପାରେ ?

Ans

- 1. ଭଗବାନ
- 2. ସୁର
- 3. ରାମଚନ୍ଦ୍ର
- 4. ଦାତା

Question ID : 9679475572

Status : Answered

Chosen Option : 1

Q.40 ଗୋପବନ୍ଧୁ 'ଧର୍ମପଦ' ଲେଖିଛନ୍ତି- ଏହି ବାବ୍ୟକୁ କର୍ମବାଚ୍ୟରେ ପରିଣାମ କଲେ କିପରି ହେବ ?

Ans 1. 'ଧର୍ମପଦ'ର ଲେଖକ ଗୋପବନ୍ଧୁ ।

2. ଗୋପବନ୍ଧୁଙ୍କ ଦ୍ୱାରା 'ଧର୍ମପଦ' ଲେଖାଯାଇଛି ।

3. ଗୋପବନ୍ଧୁ ହେଉଥିବା 'ଧର୍ମପଦ'ର ଲେଖକ ।

4. ଗୋପବନ୍ଧୁ 'ଧର୍ମପଦ' ଲେଖି ଯାଇଛନ୍ତି ।

Question ID : 9679475582

Status : Answered

Chosen Option : 2

Section : Current Affairs & Reasoning

Q.1 Which Indian player was nominated for the 2022 Laureus World Breakthrough of the Year Award?

Ans 1. Neeraj Chopra

2. PV Sindhu

3. Suneel Chettri

4. Virat Kohli

Question ID : 9679475585

Status : Answered

Chosen Option : 1

Q.2 According to the government of India norms vehicle manufacturers, both two-wheelers and four-wheelers, should manufacture, sell and register the vehicles under which of the norms from 1 April 2020?

Ans 1. BSV

2. BSVI

3. BSIV

4. BSVII

Question ID : 9679475603

Status : Marked For Review

Chosen Option : 4

Q.3 A 216-foot statue of Saint Ramanujacharya named _____ was inaugurated by Prime Minister Narendra Modi in Hyderabad on 5th February 2022.

Ans 1. Statue of Humanity

2. Statue of Liberty

3. Statue of Equality

4. Statue of Unity

Question ID : 9679475593

Status : Answered

Chosen Option : 3

Q.4 According to the fifth round of National Family Health Survey (NFHS 2019-21) of India, the number of females per thousand males is _____.

Ans 1. 840
 2. 980
 3. 1020
 4. 1100

Question ID : 9679475609

Status : Answered

Chosen Option : 3

Q.5 Smt. Namita Gokhale got the Sahitya Akademi Awards 2021, in which category?

Ans 1. Novel
 2. Poetry
 3. Play
 4. Biography

Question ID : 9679475604

Status : Answered

Chosen Option : 1

Q.6 In the year 2021, who got the National Award for Outstanding Efforts for Science & Technology Popularization among Children?

Ans 1. Dr. Sheffali Gulati
 2. Dr. Mihir Kumar Panda
 3. Dr. S. Anil Kumar
 4. Shri Rakesh Khatri

Question ID : 9679475606

Status : Not Answered

Chosen Option : --

Q.7 From which country did India import the S-400 Air Defence System in 2021?

Ans 1. France
 2. Israel
 3. The US
 4. Russia

Question ID : 9679475594

Status : Answered

Chosen Option : 4

Q.8 Which of the following will be the second city after London to host the Summer Olympics for the third time in the year 2024?

Ans 1. Tokyo
 2. Shanghai
 3. New York
 4. Paris

Question ID : 9679475614

Status : Answered

Chosen Option : 4

Q.9 _____ appointed French-born University of California-Berkeley based Pierre-Olivier Gourinchas as the next chief economist in January 2022.

Ans 1. IMF
 2. WHO
 3. World Bank
 4. WTO

Question ID : 9679475587

Status : Answered

Chosen Option : 1

Q.10 Which Park in Gurugram, Haryana has been declared as India's first 'other effective area-based conservation measures' (OECM) site?

Ans 1. Aravalli Biodiversity Park
 2. Yamuna Biodiversity Park
 3. Tilpath Valley Biodiversity Park
 4. Kalindi Biodiversity Park

Question ID : 9679475602

Status : Answered

Chosen Option : 1

Q.11 Which state/union territory was the co-host of the 25th edition of the National Youth Festival (that concluded in January 2022) along with the Ministry of Youth Affairs?

Ans 1. Puducherry
 2. Uttar Pradesh
 3. Punjab
 4. Odisha

Question ID : 9679475590

Status : Marked For Review

Chosen Option : 3

Q.12 In February 2022, NASA announced that it would retire International Space Station by crashing it into the Pacific Ocean in the year _____.

Ans 1. 2029

2. 2031

3. 2023

4. 2025

Question ID : 9679475589

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.13 In January 2022, which country passed a bill replacing its capital with East Kalimantan, which will now be called Nusantara?

Ans 1. Turkey

2. Indonesia

3. Brazil

4. Belarus

Question ID : 9679475588

Status : Answered

Chosen Option : 2

Q.14 What is the theme of World Environment Day 2022?

Ans 1. Cleaner and Greener Lifestyles

2. Only One Earth

3. Celebrate Biodiversity

4. Ecosystem Restoration

Question ID : 9679475601

Status : Answered

Chosen Option : 3

Q.15 In October 2021, which company purchased the national carrier Air India?

Ans 1. Jio Industries

2. Adani Ports

3. Tata Sons

4. Reliance India

Question ID : 9679475600

Status : Answered

Chosen Option : 3

Q.16 In the year 2021, the ICC T20 World Cup final was played between _____.

Ans 1. New Zealand and South Africa
 2. England and Australia
 3. South Africa and Australia
 4. Australia and New Zealand

Question ID : 9679475611

Status : Answered

Chosen Option : 4

Q.17 Which award was renamed as the Major Dhyan Chand Khel Ratna Award in the year 2021?

Ans 1. Maulana Abul Kalam Azad Award
 2. Arjuna Award
 3. Dronacharya Award
 4. Rajiv Gandhi Khel Ratna Award

Question ID : 9679475612

Status : Answered

Chosen Option : 4

Q.18 Which group of the countries were invited as guests to attend the G-7 summit 2021?

Ans 1. India, Australia, South Korea and Brazil
 2. India, Spain, South Korea and South Africa
 3. India, Australia, South Korea and South Africa
 4. Mauritius, Australia, South Korea and South Africa

Question ID : 9679475586

Status : Answered

Chosen Option : 3

Q.19 As per the revised estimates, the Union Government spent Rs. 34,50,305 crores in 2020-21, which was _____ higher than the budget estimated for that year.

Ans 1. 15%
 2. 13%
 3. 11%
 4. 9%

Question ID : 9679475598

Status : Not Answered

Chosen Option : --

Q.20 In October 2021, who received the 51st Dadasaheb Phalke Award at the presentation ceremony of the 67th National Film Awards?

Ans 1. Kamal Hassan
 2. Akshay Kumar
 3. Rajinikanth
 4. Mithun Chakraborty

Question ID : 9679475592

Status : **Answered**

Chosen Option : 3

Q.21 Which of following statements is true about the Union Government budget for the year 2022-23?

Ans 1. There would be no changes in income tax rates for individuals and corporations.
 2. There would be change in standard deduction from Rs. 50,000 to Rs. 1 lakh on income tax.
 3. Tax exemption on the interest income on the employees' contributions to provident funds will be limited up to Rs. 2.5 lakh.
 4. The highest income tax slab is fixed at 40% of total income.

Question ID : 9679475599

Status : **Not Answered**

Chosen Option : --

Q.22 Who did India defeat to win the bronze medal at the 2022 Women's Hockey Asia Cup tournament?

Ans 1. Japan
 2. South Korea
 3. Oman
 4. China

Question ID : 9679475613

Status : **Answered**

Chosen Option : 4

Q.23 What is India's position as urban system in the world as per the 'Reforms in Urban Planning Capacity in India' report 2021?

Ans 1. The second largest
 2. The fourth largest
 3. The largest
 4. The third largest

Question ID : 9679475608

Status : **Not Answered**

Chosen Option : --

Q.24 Which of the following is NOT true about 'Sukanya Samriddhi Yojana' as of December 2021?

Ans 1. An account can be opened in the name of a girl child till she attains the age of 10 years.
 2. Minimum deposit is Rs. 250 and maximum deposit is Rs. 1.5 Lakh in a financial year.
 3. An account can be opened only in the case of a single girl child.
 4. The tenure of the deposit is 21 years from the date of opening of the account.

Question ID : 9679475610

Status : Answered

Chosen Option : 3

Q.25 India's first woman Rafale fighter jet pilot and the second woman fighter jet pilot to be part of the IAF tableau _____ was a part of the Indian Air Force tableau at the Republic Day parade on 26 January 2022.

Ans 1. Sarla Thukral
 2. Bhawna Kanth
 3. Zoya Aggarwal
 4. Shivangi Singh

Question ID : 9679475597

Status : Answered

Chosen Option : 4

Q.26 In December 2021, which of the following was added to UNESCO's Intangible Heritage List 2021 from India?

Ans 1. Chhau dance, Jharkhand
 2. Kumbh Mela, Uttarakhand
 3. Durga Puja, Kolkata
 4. Kutiyattam, Sanskrit theatre

Question ID : 9679475591

Status : Answered

Chosen Option : 3

Q.27 The Sea Dragon 22 exercise was a multinational exercise held in January 2022 in _____.

Ans 1. Australia
 2. India
 3. Japan
 4. The US

Question ID : 9679475595

Status : Answered

Chosen Option : 2

Q.28 In January 2022, which institute developed an indigenous RT-PCR diagnostic kit, 'Om', for the testing of the Omicron variant of coronavirus?

Ans 1. CSIR-NEERI
 2. CSIR-CDRI
 3. NIPER
 4. CSIR-NPL

Question ID : 9679475607

Status : Answered

Chosen Option : 2

Q.29 The India has built BrahMos Missile jointly with which country?

Ans 1. France
 2. Britain
 3. Russia
 4. Australia

Question ID : 9679475596

Status : Answered

Chosen Option : 3

Q.30 Who is the education minister of India as of January 2022?

Ans 1. Smriti Irani
 2. Prakash Javadekar
 3. Ramesh Pokhriyal
 4. Dharmendra Pradhan

Question ID : 9679475605

Status : Answered

Chosen Option : 4

Q.31 Read the given information carefully and answer the question that follows.

At a graduation ceremony, six friends A, B, C, D, E and F were sitting around a circular table, facing the centre. Each of them was wearing a different coloured graduation robe, namely, yellow, pink, blue, red, white, and black, not necessarily in the same order. All of them were seated equidistant to one another. C, in a red robe, was sitting exactly in between B and A. A, in a yellow robe, was sitting opposite to the one wearing a pink robe. E was sitting second to the left of B. D, in a black robe, was sitting second to the right of C. The one wearing a blue robe was between the ones wearing the pink and red robes, respectively.

Which friend, amongst the six, was wearing a white robe?

Ans 1. E
 2. B
 3. C
 4. F

Question ID : 9679475615

Status : Answered

Chosen Option : 1

Q.32 Read the given information carefully and answer the question that follows.

P, Q, R, D, X, Y, Z, and F are seating around a square table facing the centre in such a way that four of them sit at the four corners of the table while four sit in the middle of each of the four sides.

F sits second to the left of Q.

Only two people sit between D and Q (taken from one side).

P sits second to right of Y. Y sits in the middle of one of the sides of the table.

R is not an immediate neighbour of Z.

X is not an immediate neighbour of Z or Y.

Z who does not sit at any of the corners of the table, sits second to the right of D.

What will come in place of question mark (?) based upon the given sitting arrangement?

PX XF FY ?

Ans 1. DQ

2. YX

3. FR

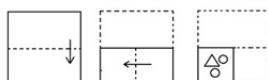
4. YD

Question ID : 9679475616

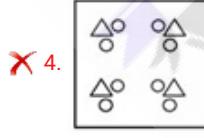
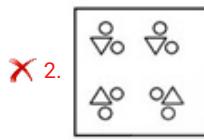
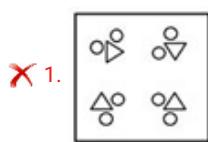
Status : Answered

Chosen Option : 4

Q.33 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans

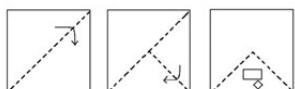


Question ID : 9679475642

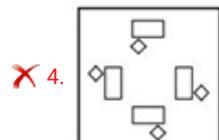
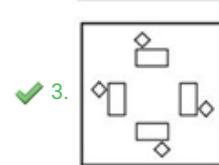
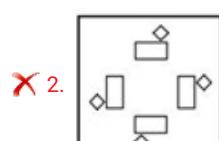
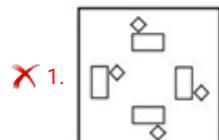
Status : Answered

Chosen Option : 3

Q.34 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans



Question ID : 9679475641

Status : Not Answered

Chosen Option : --

Q.35 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All chairs are tables.
Some tables are desks.
Some desks are fans.

Conclusions:

(I) Some desks are chairs.
(II) Some fans are tables.
(III) Some chairs are fans.

Ans **X 1.** Only conclusion I follows

X 2. Only conclusion II follows

✓ 3. None of the conclusions follow

X 4. Either conclusion I or conclusion III follows

Question ID : 9679475622

Status : Answered

Chosen Option : 3

Q.36 NET is related to PIZ in a certain way based on the English alphabetical order. In the same way, MAP is related to OEV. To which of the following is BIT related using the same logic?

ANSWER

Ans 1. ZCL
2. BEN
3. AEN
4. ZEN

Question ID : 9679475627

Status : **Answered**

Chosen Option : 4

Q.37 Read the given information carefully and answer the question that follows.

Six people, P, Q, R, S, T and U lined up together to withdraw their money from an ATM. They made a queue in such a way that R is between U and T. S is between P and Q. P does not stand next to either U or T. Q does not stand next to T.

Who is standing to the immediate right of R?

Ans  1. T
 2. S
 3. Q
 4. P

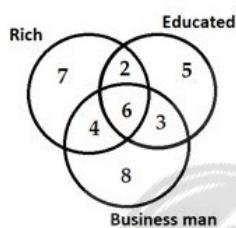
Question ID : 9679475617

Status : **Answered**

Chosen Option : 3

Q.38 Study the given diagram carefully and answer the question that follows.

The numbers in different sections indicate the number of persons in that section only.



Which number represents all the businessmen who are rich and educated?

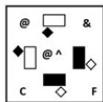
Ans

Question ID : 9679475623

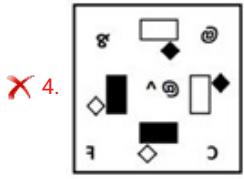
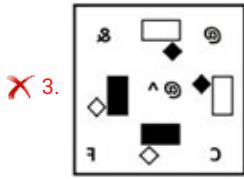
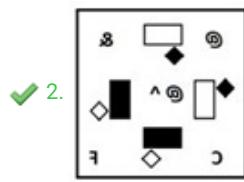
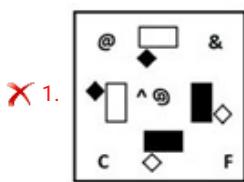
Status : **Answered**

Chosen Option : 1

Q.39 Select the correct mirror image from the following options when the mirror is placed on the right side of the given figure.



Ans



Question ID : 9679475638

Status : Answered

Chosen Option : 2

Q.40 HPK is related to KNN in a certain way based on the English alphabetical order. In the same way, SVY is related to VTB. To which of the following is SCQ related using the same logic?

Ans

X 1. QEN

✓ 2. PEN

X 3. PFN

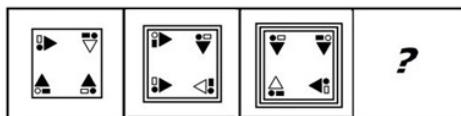
X 4. PHN

Question ID : 9679475626

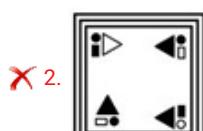
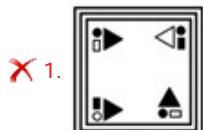
Status : Answered

Chosen Option : 2

Q.41 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Ans



Question ID : 9679475633

Status : Answered

Chosen Option : 3

Q.42 What day of the week was 2 February 2002?

Ans 1. Saturday

2. Sunday

3. Monday

4. Tuesday

Question ID : 9679475618

Status : Answered

Chosen Option : 1

Q.43 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. All P are C.
- II. No X is C.

Conclusions:

- I. No X is P.
- II. Some C are not P.

Ans 1. Only conclusion II follows

2. Both conclusion I and II follows

3. Only conclusion I follows

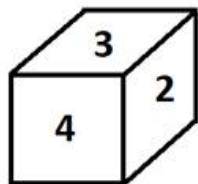
4. Neither conclusion follows

Question ID : 9679475620

Status : Answered

Chosen Option : 2

Q.44 Select the number that will be on the face opposite to one having number 3.



Ans 1. 6 or 5

2. 1, 5 or 6

3. 5

4. 3, 4 or 5

Question ID : 9679475643

Status : Answered

Chosen Option : 2

Q.45 Four letter-pairs have been given out of which three are alike in some manner and one is different. Select the one that is different.

Ans 1. OFK : QJQ

2. YRK : AVQ

3. NOT : PSZ

4. REN : TIS

Question ID : 9679475631

Status : Answered

Chosen Option : 4

Q.46 In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:
I. No W is R.
II. No R is A.

Conclusions:
I. No R is W.
II. No A is R.

Ans 1. Only conclusion I follows

2. Both conclusion I and II follows

3. Only conclusion II follows

4. Neither conclusion follows

Question ID : 9679475621

Status : Answered

Chosen Option : 2

Q.47 Four letter-pairs have been given out of which three are alike in some manner and one is different. Select the one that is different.

Ans 1. JTR : MQU

2. LVT : ORW

3. KDU : NAX

4. HEO : KBR

Question ID : 9679475630

Status : Answered

Chosen Option : 2

Q.48 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some cups are jars.

All jars are pans.

No pans is a dish.

Conclusions:

(I) Some dishes are not pans.

(II) No pan is a cup.

(III) Some jars are utensils.

Ans 1. Only conclusion I follows

2. All the conclusions I, II and III follow

3. Either conclusion I or conclusion III follows

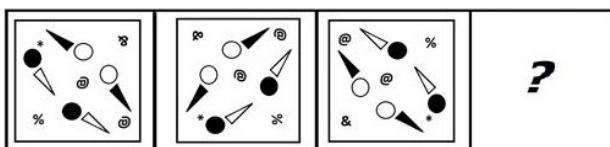
4. Only conclusion II follows

Question ID : 9679475619

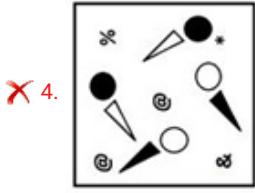
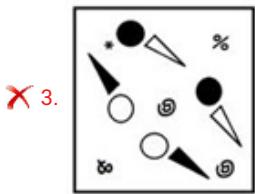
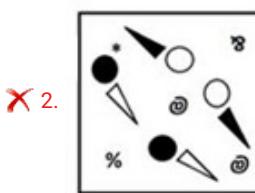
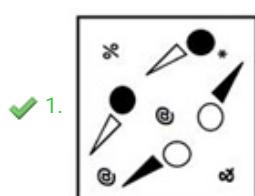
Status : Answered

Chosen Option : 1

Q.49 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Ans



Question ID : 9679475634

Status : Answered

Chosen Option : 1

Q.50 Read the given statement and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement.

Statement:

Honey should not be given to babies before they turn 1 year of age because it contains bacteria that can cause infant paralysis.

Conclusions:

I. It is safer to give honey to children after the age of 1 year.

II. The bacteria that grows in honey cause infant botulism.

Ans

✓ 1. Only conclusion I follows

✗ 2. None of the conclusions follow

✗ 3. Both the conclusions follow

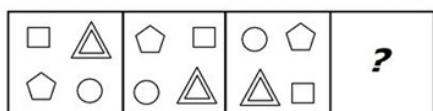
✗ 4. Only conclusion II follows

Question ID : 9679475634

Status : Answered

Chosen Option : 1

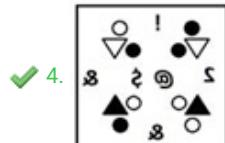
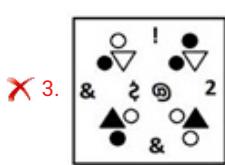
Q.51 Select the figure from the options that can replace the question mark (?) and complete the pattern.



Q.52 Select the correct mirror image from the following options when the mirror is placed on the right side of the given figure.



Ans



Question ID : 9679475637

Status : Answered

Chosen Option : 4

Q.53 Two figures given on the left side of (::) are related with some logic/rule/relation. Select the missing figure on the right of (::) from the given alternatives based on the same logic/rule/relation.



Ans



Question ID : 9679475635

Status : Answered

Chosen Option : 3

Q.54 PMT2 is related to LOH4 in a certain way. In the same way, PSY5 is related to LIC10. To which of the following is LMH8 related using the same logic?

Ans 1. POT2
 2. PPT4
 3. OLS4
 4. POT4

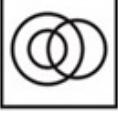
Question ID : 9679475629

Status : Answered

Chosen Option : 4

Q.55 Identify the diagram that best represents the relationship among the given classes.

Brother, Human, Male

Ans 1. 
 2. 
 3. 
 4. 

Question ID : 9679475624

Status : Answered

Chosen Option : 1

Q.56 Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having 6.



Ans 1. 1, 5 or 3
 2. 1 or 3
 3. 5
 4. 5 or 3

Question ID : 9679475644

Status : Answered

Chosen Option : 1

Q.57 T5R is related to G20I in a certain way based on the alpha numerical order. In the same way, M2P is related to NSK. To which of the following is J32G related using the same logic?

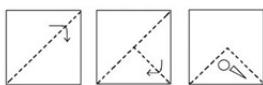
Ans 1. R8T
 2. Q10T
 3. Q8T
 4. Q8U

Question ID : 9679475628

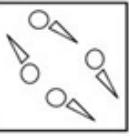
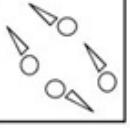
Status : Answered

Chosen Option : 3

Q.58 The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans

1. 
 2. 
 3. 
 4. 

Question ID : 9679475640

Status : Answered

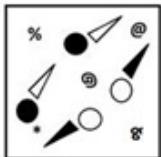
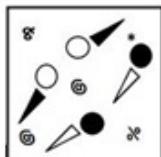
Chosen Option : 1



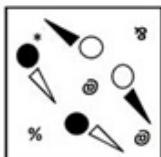
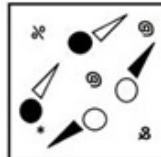
Q.59 Select the correct mirror image from the following options when the mirror is placed on the right side of the given figure.



Ans



2



Question ID : 9679475639

Status : **Answered**

Chosen Option : 3

Q.60 Starting from a same point, Anil and Rahul start walking in opposite directions. Anil covers 200 metres and Rahul covers 300 metres. Then Anil turns right and walks 400 metres while Rahul turns left and walks 200 metres. Approximately how far are Anil and Rahul from the starting point?

Ans 1. 398 metres and 421 metres, respectively
 2. 453 metres and 389 metres, respectively
 3. 380 metres and 269 metres, respectively
 4. 447 metres and 360 metres, respectively

Question ID : 9679475625

Status : **Not Attempted and Marked For Review**

Chosen Option : --

Section : **Subject Content & Methodology**

Q.1 If x is real, then the value of $\frac{x^2 + 34x - 71}{x^2 + 2x - 7}$ cannot lie between:

Ans 1. 4 and 8
 2. 5 and 9
 3. 5 and 10
 4. 6 and 10

Question ID : 9679475670

Status : Not Answered

Chosen Option : --

Q.2 If the system of equations $\lambda x + y + z = 0$, $x + \lambda y + z = 0$ and $x + y + \lambda z = 0$ have non-zero solutions, then $\lambda = ?$

Ans 1. 1
 2. -2
 3. 1 or -2
 4. 4

Question ID : 9679475652

Status : Answered

Chosen Option : 1

Q.3 The remainder when $x^4 + 15x^3 + 6x^2 - 12x + 3$ is divided by $(x + 2)$ is:

Ans 1. -53
 2. 52
 3. -52
 4. 53

Question ID : 9679475653

Status : Answered

Chosen Option : 1

Q.4 If $x = a \operatorname{cosec}\theta + b \operatorname{cot}\theta$ and $y = b \operatorname{cosec}\theta + a \operatorname{cot}\theta$, then what will be the value of $x^2 - y^2$?

Ans 1. $a^2 + b^2$
 2. $a + b$
 3. $a^2 - b^2$
 4. 0

Question ID : 9679475714

Status : Answered

Chosen Option : 3

Q.5 If A(3, x) B(2, 7) and C(-1, 4) and D(0, 6) are the points such that AB||CD, then x = _____.

Ans 1. 12

2. 8

3. 6

4. 9

Question ID : 9679475698

Status : Answered

Chosen Option : 4

Q.6 If $f(x) = \begin{cases} x \sin\left(\frac{1}{x}\right); & x \neq 0 \\ 0; & x = 0 \end{cases}$ then it is:

Ans 1. Limit does not exist

2. Continuous at $x = 0$

3. Limit exists

4. Discontinuous at $x = 0$

Question ID : 9679475689

Status : Answered

Chosen Option : 2

Q.7 If $\sin \theta = -\frac{4}{5}$ and $\pi < \theta < \frac{3\pi}{2}$, then $\sec \theta =$ _____.

Ans

1. $-\frac{5}{3}$

2. $-\frac{1}{5}$

3. $\frac{1}{4}$

4. $-\frac{5}{4}$

Question ID : 9679475710

Status : Answered

Chosen Option : 1

Q.8 The income of P and Q are in the ratio 3 : 2 and expenses are in the ratio 5 : 3. If both save ₹ 200, then what is the income of P?

Ans 1. ₹ 700
 2. ₹ 1,000
 3. ₹ 1,400
 4. ₹ 1,200

Question ID : 9679475660

Status : Answered

Chosen Option : 4

Q.9 If the elevation of the sun is 30° , then what is the length of the shadow cast by a tower of 150 ft height?

Ans 1. $100\sqrt{3}$
 2. $50\sqrt{3}$
 3. $150\sqrt{3}$
 4. $120\sqrt{3}$

Question ID : 9679475713

Status : Answered

Chosen Option : 3

Q.10 Which of the following inequality is equivalent to $-\frac{a}{3b} < c$ for all non-zero values of a, b and c ?

Ans 1. $-\frac{a}{3} < bc$
 2. $\frac{a}{b} > -3c$
 3. $a < -3b$
 4. $a > -3bc$

Question ID : 9679475679

Status : Answered

Chosen Option : 2

Q.11 If $y = \tan^{-1}(\sqrt{1+x^2} - x)$, then $\frac{dy}{dx} = ?$

Ans

✓ 1. $-\frac{1}{2(1+x^2)}$

✗ 2. $\frac{-1}{1+x^2}$

✗ 3. $\frac{1}{1+x^2}$

✗ 4. $\frac{1}{2(1+x^2)}$

Question ID : 9679475690

Status : Answered

Chosen Option : 1

Q.12 The area of an isosceles triangle in terms of hypotenuse h is:

Ans

✗ 1. $\frac{h^2}{3}$

✗ 2. $\frac{h^2}{2}$

✓ 3. $\frac{h^2}{4}$

✗ 4. $\frac{h^2}{6}$

Question ID : 9679475694

Status : Answered

Chosen Option : 3

Q.13 If the correlation is perfect, then the coefficient of correlation should be:

Ans

✓ 1. ± 1

✗ 2. 0

✗ 3. -1

✗ 4. +1

Question ID : 9679475720

Status : Answered

Chosen Option : 1

Q.14 In a town of 6000 people, 1200 are over 50 years old and 2000 are females. It is known that 30% of the females are over 50 years. What is the probability that a randomly chosen individual from the town is either female or over 50 years?

Ans

1. $\frac{7}{15}$

2. $\frac{14}{15}$

3. $\frac{17}{30}$

4. $\frac{13}{30}$

Question ID : 9679475724

Status : Answered

Chosen Option : 4

Q.15 If the modal height of a group of students, where data is given below is 152.8 cm, then what is the value of x ?

Height (in cm)	145 - 150	150 - 155	155 - 160	160 - 165	165 - 170
No. of students	22	36	x	17	4

Ans 1. 27

2. 25

3. 26

4. 24

Question ID : 9679475716

Status : Not Attempted and Marked For Review

Chosen Option : --

Q.16 If $\frac{2}{\sqrt{x}} + \frac{3}{\sqrt{y}} = 2$ and $\frac{4}{\sqrt{x}} - \frac{9}{\sqrt{y}} = -1$, then:

Ans 1. $x = 4, y = 3$

2. $x = 4, y = 9$

3. $x = 2, y = 9$

4. $x = 2, y = 3$

Question ID : 9679475656

Status : Answered

Chosen Option : 2

Q.17 If $A(6, 3), B(3, 5), C(4, 2), P(\alpha, \beta)$, then the ratio of the areas of the triangles PBC, ABC are:

Ans 1. $|\alpha + \beta + 2| : 7$
 2. $|3\alpha + \beta - 14| : 7$
 3. $|\alpha + \beta| : 7$
 4. $|\alpha - \beta| : 7$

Question ID : 9679475700

Status : Answered

Chosen Option : 2

Q.18 The value of $\sum_{i=1}^n \sum_{j=1}^i \sum_{k=1}^j 1$ is:

Ans 1. $\sum n$
 2. $\frac{[n(n+1)(n+2)]}{6}$
 3. $\sum n^3$
 4. $\sum n^2$

Question ID : 9679475676

Status : Answered

Chosen Option : 2

Q.19 $1^2 + 2^2 + 3^2 + \dots + 100^2 = \underline{\hspace{2cm}}$.

Ans 1. 338350
 2. 5050^2
 3. 5050
 4. 42925

Question ID : 9679475671

Status : Answered

Chosen Option : 1

Q.20 If $\frac{10}{x+y} + \frac{2}{x-y} = 4$ and $\frac{15}{x+y} - \frac{5}{x-y} = -2$, then:

Ans 1. $x = -3, y = 2$
 2. $x = -3, y = -2$
 3. $x = 3, y = 2$
 4. $x = 3, y = -2$

Question ID : 9679475664

Status : Answered

Chosen Option : 3

Q.21 The point of intersection of the lines $2x + 3y - 5 = 0$ and $3x - 4y + 1 = 0$ lies in which quadrant?

Ans 1. III
 2. I
 3. II
 4. IV

Question ID : 9679475658

Status : Answered

Chosen Option : 2

Q.22 Which of the following is the inconsistent equation to $2x + 3y - 5 = 0$?

Ans 1. $x + 3y = 5$
 2. $4x + 6y - 11 = 0$
 3. $2x + y - 5 = 0$
 4. $4x - 6y - 11 = 0$

Question ID : 9679475661

Status : Answered

Chosen Option : 2

Q.23 The sides of a rectangle are 49 m and 35 m, respectively. How many square beds can be accommodated in this rectangle if the side of the bed is 7 m?

Ans 1. 35
 2. 36
 3. 34
 4. 33

Question ID : 9679475693

Status : Answered

Chosen Option : 1

Q.24 The term independent of 'x' in $\left[x^2 - \frac{1}{x}\right]^9$ is:

Ans 1. 125
 2. 84
 3. 112
 4. 96

Question ID : 9679475683

Status : Answered

Chosen Option : 2

Q.25 $\lim_{x \rightarrow 0} \frac{\tan 3x - 2x}{3x - \sin^2 x}$ is equal to:

Ans 1. $\frac{1}{3}$
 2. $\frac{1}{2}$
 3. 1
 4. 0

Question ID : 9679475686

Status : Answered

Chosen Option : 1

Q.26 If $1^2 + 2^2 + 3^2 + \dots + n^2 = 4900$, then the number of terms is:

Ans 1. 22
 2. 28
 3. 26
 4. 24

Question ID : 9679475673

Status : Answered

Chosen Option : 4

Q.27 The y -intercept of a line is -3 and it is perpendicular to the line $3x - 2y + 5 = 0$. The equation of the line is:

Ans 1. $2x + 3y + 9 = 0$
 2. $2x - 3y + 9 = 0$
 3. $-2x - 3y + 9 = 0$
 4. $2x - 3y - 9 = 0$

Question ID : 9679475699

Status : Answered

Chosen Option : 1

Q.28 If the volume of a sphere is 8 times that of another sphere, then the ratio of their surface areas is:

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

Question ID : 9679475706

Status : Answered

Chosen Option : 2

Q.29 If $x^2 + bx + a = 0$, $ax^2 + x + b = 0$ have a common root and the first equation has equal roots, then $2a^2 + b =$ _____.

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

Question ID : 9679475669

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.30 The rank of $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 1 & 0 \\ 0 & 1 & 2 \end{bmatrix}$ is:

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

Question ID : 9679475651

Status : Not Answered

Chosen Option : --



Q.31 Find the median of the given data.

Terms	3	5	7	9	11	13	15
Frequency	3	2	8	4	12	10	4

Ans 1. 13
 2. 9
 3. 7
 4. 11

Question ID : 9679475717

Status : Answered

Chosen Option : 4

Q.32 The statement $a = bq + r$ where $0 \leq r \leq b$ is:

Ans 1. Peano's theorem
 2. the fundamental theorem
 3. Fermat theorem
 4. Euclid's division lemma

Question ID : 9679475647

Status : Answered

Chosen Option : 4

Q.33 The value of $\frac{\sin 29^\circ}{\cos 61^\circ} - 4(\cos^2 31^\circ + \cos^2 59^\circ) + \frac{1}{\sqrt{3}} \tan 27^\circ \sin 60^\circ \tan 63^\circ$ is:

Ans 1. $-\frac{5}{2}$
 2. $\frac{1}{2}$
 3. 10
 4. -5

Question ID : 9679475715

Status : Answered

Chosen Option : 1

Q.34 If $b \neq 0$ and $\frac{a}{b} > 0$, then which of the following inequalities must be true?

Ans 1. $a < 0$
 2. $a > b$
 3. $ab > 0$
 4. $b > 0$

Question ID : 9679475677

Status : Answered

Chosen Option : 3

Q.35 Cauchy-Schwartz inequality is:

Ans 1. $(\sum ab)^2 \geq \sum a^2 \sum b^2$
 2. $(\sum ab)^2 > \sum a^2 \sum b^2$
 3. $(\sum ab)^2 < \sum a^2 \sum b^2$
 4. $(\sum ab)^2 \leq \sum a^2 \sum b^2$

Question ID : 9679475678

Status : Answered

Chosen Option : 4

Q.36 If P, Q are the points of trisection of A(1, -2) and B(-5, 6), then PQ is:

Ans 1. 5
 2. 10
 3. $\frac{5}{2}$
 4. $\frac{10}{3}$

Question ID : 9679475702

Status : Answered

Chosen Option : 4

Q.37 The general form of the linear equation in two variables x, y is:

Ans 1. $ax + by + c = 0, a \neq 0, b \neq 0$
 2. $ax + by + c = 0, a \neq 0$
 3. $ax + by + c = 0, |a| + |b| \neq 0$
 4. $ax + by + c = 0, |a| + |b| = 0$

Question ID : 9679475708

Status : Answered

Chosen Option : 1

Q.38 Let $u(x)$ and $v(x)$ be differential functions such that $\frac{u(x)}{v(x)} = 7$. If $\frac{u'(x)}{v'(x)} = p$ and $\left[\frac{u(x)}{v(x)} \right]' = q$, then $\frac{p+q}{p-q} = \underline{\hspace{2cm}}$.

Ans 1. -7
 2. 7
 3. 0
 4. 1

Question ID : 9679475692

Status : Answered

Chosen Option : 4

Q.39 If X is a poison variate such that $P(X = k) = P(X = k + 1)$ for some positive integers ' k ' then the mean is:

Ans 1. $k + 1$
 2. k
 3. $k + 2$
 4. $k + 3$

Question ID : 9679475722

Status : Answered

Chosen Option : 1

Q.40 Eliminate θ from $x = \cot \theta + \tan \theta$ and $y = \sec \theta - \cos \theta$:

Ans 1. $x^2 + y^2 = 1$
 2. $(x^2 y)^{\frac{2}{3}} + (xy^2)^{\frac{2}{3}} = 1$
 3. $(x^2 y)^{\frac{2}{3}} - (xy^2)^{\frac{2}{3}} = 1$
 4. $(x^3 y)^{\frac{2}{3}} + (xy^3)^{\frac{2}{3}} = 1$

Question ID : 9679475712

Status : Answered

Chosen Option : 3

Q.41 The standard basis of $V_3(F)$ is:

Ans 1. $\{(1, 0, 0), (1, 1, 0), (0, 0, 1)\}$
 2. $\{(1, 0, 0), (0, 1, 0), (0, 1, 1)\}$
 3. $\{(1, 1, 0), (0, 1, 0), (0, 0, 1)\}$
 4. $\{(1, 0, 0), (0, 1, 0), (0, 0, 1)\}$

Question ID : 9679475650

Status : Answered

Chosen Option : 4

Q.42 If the zeroes of the rational expression $(3x + 2a)(2x + 1)$ are $-\frac{1}{2}$ and $\frac{b}{3}$, then the value of 'a' is:

Ans 1. $\frac{2b}{3}$
 2. $-\frac{b}{3}$
 3. $-\frac{2b}{3}$
 4. $-\frac{b}{2}$

Question ID : 9679475654

Status : Answered

Chosen Option : 4

Q.43 If $\text{cosec } \theta + \cot \theta = \frac{1}{3}$, then θ lies in the quadrant:

Ans 1. III
 2. II
 3. IV
 4. I

Question ID : 9679475711

Status : Answered

Chosen Option : 2

Q.44 The area of the triangle formed by the points $(0,0)$; $(a^{x^2}, 0)$, $(0, a^{6x})$ is $\frac{1}{2a^5}$ units² then $x = \underline{\hspace{2cm}}$.

Ans 1. -1 or -5

2. -1 or 5

3. 1 or 5

4. 1 or -5

Question ID : 9679475701

Status : Answered

Chosen Option : 1

Q.45 If one equation of a pair of dependent linear equations is $-5x + 7y = 2$, then the second equation would be:

Ans 1. $10x - 14y = -4$

2. $-10x - 14y + 4 = 0$

3. $10x + 14y + 4 = 0$

4. $-10x + 14y + 4 = 0$

Question ID : 9679475663

Status : Answered

Chosen Option : 1

Q.46 The greatest common divisor of $(6, 35)$ is:

Ans 1. 35

2. 1

3. 5

4. 6

Question ID : 9679475648

Status : Answered

Chosen Option : 2

Q.47 The area of the circle is 220 cm², then the area of the square inscribed in it is:

Ans 1. 140 cm²

2. 150 cm²

3. 49 cm²

4. 70 cm²

Question ID : 9679475703

Status : Answered

Chosen Option : 1

Q.48 Let $f: X \rightarrow Y$ when X and Y are finite sets $|X| = m, |Y| = n$ and $m > n$, then there exist at least two distinct elements x_1 and x_2 in X such that:

Ans 1. $f(x_1) > f(x_2)$
 2. No relation
 3. $f(x_1) = f(x_2)$
 4. $f(x_1) < f(x_2)$

Question ID : 9679475684

Status : Answered

Chosen Option : 3

Q.49 If $\lim_{x \rightarrow -a} \frac{x^9 + a^9}{x + a} = 9$, then the value of 'a' is:

Ans 1. ± 3
 2. ± 1
 3. ± 2
 4. 0

Question ID : 9679475685

Status : Answered

Chosen Option : 2

Q.50 The n^{th} term of the progression $2.3 + 3.4 + 4.5 + \dots$ is:

Ans 1. $(n)(n - 1)$
 2. $(n)(n + 1)$
 3. $(n - 1)(n + 1)$
 4. $(n + 1)(n + 2)$

Question ID : 9679475672

Status : Answered

Chosen Option : 4

Q.51 The set of natural numbers has:

Ans 1. a maxima element
 2. a lower bound
 3. an upper bound
 4. a minimal element

Question ID : 9679475645

Status : Answered

Chosen Option : 2

Q.52 What is the arithmetic mean of the three-digit numbers formed by using 1, 5 and 9?

Ans 1. 525
 2. 550
 3. 500
 4. 555

Question ID : 9679475675

Status : Answered

Chosen Option : 4

Q.53 If one root of the equation $ax^2 + bx + c = 0$ is $3 - 4i$, then $31a + b + c = \underline{\hspace{2cm}}$.

Ans 1. $2b$
 2. $2a$
 3. 0
 4. $2c$

Question ID : 9679475667

Status : Answered

Chosen Option : 4

Q.54 The solution of the system of equations $\frac{2x + 5y}{xy} = 6$ and $\frac{4x - 5y}{xy} + 3 = 0$ is:

Ans 1. $x = 1, y = 2$
 2. $x = -1, y = 2$
 3. $x = 1, y = -2$
 4. $x = -1, y = -2$

Question ID : 9679475659

Status : Answered

Chosen Option : 1

Q.55 Type-I error is to:

Ans 1. accept H_0 when it is wrong
 2. accept H_0 when it is true
 3. reject H_0 when it is true
 4. reject H_0 when it is false

Question ID : 9679475721

Status : Answered

Chosen Option : 3

Q.56 If $(x^4 + ax^3 - 7x^2 - 8x + b)$ is completely divisible by $x^2 + 5x + 6$, then the values of a and b are:

Ans 1. 2, 8
 2. 2, 14
 3. -2, 6
 4. 2, 12

Question ID : 9679475655

Status : Answered

Chosen Option : 4

Q.57 $\lim_{x \rightarrow \frac{\pi}{6}} \frac{\sqrt{3}\sin x - \cos x}{x - \frac{\pi}{6}}$ is equal to:

Ans 1. 2
 2. 0
 3. 1
 4. $\frac{1}{6}$

Question ID : 9679475687

Status : Answered

Chosen Option : 1

Q.58 Which of the following is the farthest point from (1,1)?

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

Question ID : 9679475697

Status : Answered

Chosen Option : 1

Q.59 The sum of the series $3.8 + 6.11 + 9.14 + \dots$ to n terms is:

Ans 1. $(3n^2 + 3n)(n + 3)$
 2. $3n(n + 1)(n + 3)$
 3. $(n + 3)(n - 1)$
 4. $(n - 1)^2$

Question ID : 9679475674

Status : Answered

Chosen Option : 2

Q.60 The solution of the equations $\sqrt{3}x - \sqrt{7}y = 0$ and $\sqrt{8}x + \sqrt{3}y = 0$ is:

Ans 1. $x = 8, y = 3$
 2. $x = 0, y = 0$
 3. $x = 0, y = 1$
 4. $x = 3, y = 7$

Question ID : 9679475662

Status : Answered

Chosen Option : 2

Q.61 The perimeter of a triangle is 30 cm and its area is 30 cm^2 . If the largest side measures 13 cm, then what is the length of the smallest side of the triangle?

Ans 1. 6 cm
 2. 5 cm
 3. 3 cm
 4. 4 cm

Question ID : 9679475707

Status : Answered

Chosen Option : 2

Q.62 A function $f(x)$ is defined as $f(x) = \begin{cases} 1 + x & \text{when } x < 2 \\ 5 - x & \text{when } x \geq 2 \end{cases}$ is:

Ans 1. Limit does not exist
 2. Continuous at $x = 0$
 3. Continuous at $x = 2$
 4. Discontinuous at $x = 2$

Question ID : 9679475688

Status : Answered

Chosen Option : 3

Q.63 The sum of the coefficients in the expansion of $(x + 1)^5$ is:

Ans 1. 22
 2. 20
 3. 40
 4. 32

Question ID : 9679475682

Status : Answered

Chosen Option : 4

Q.64 A rectangle has 15 cm as its length and 150 cm^2 as its area. If the area is increased to $1\frac{1}{3}$ times the original area by increasing its length only, then the new perimeter is:

Ans 1. 80 cm
 2. 70 cm
 3. 50 cm
 4. 60 cm

Question ID : 9679475696

Status : Answered

Chosen Option : 4

Q.65 If $x > |y| > z$, quantity A is $(x + y)$ and quantity B is $|y| + z$, then:

Ans 1. quantity A and quantity B both are equal
 2. quantity A is greater
 3. the relationship cannot be determined from the information
 4. quantity B is greater

Question ID : 9679475680

Status : Not Answered

Chosen Option : --

Q.66 If $x, y, z \in R$ and $x < y$, then:

Ans 1. $xz > yz, z = 0$
 2. $xz > yz, z < 0$
 3. $xz > yz, z > 0$
 4. $xz > yz, z$ is positive or negative or zero

Question ID : 9679475646

Status : Answered

Chosen Option : 2

Q.67 The solution set of equation $x^4 - 5x^2 + 6 = 0$ is:

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

Question ID : 9679475665

Status : Answered

Chosen Option : 3

Q.68 A subset of a vector space containing zero vector is:

Ans 1. linearly dependent
 2. either linearly dependent or linearly independent
 3. linearly independent
 4. neither dependent nor linearly independent

Question ID : 9679475649

Status : Answered

Chosen Option : 2

Q.69 A cuboid shaped slab of iron whose dimensions are $55\text{ cm} \times 40\text{ cm} \times 15\text{ cm}$, is melted and recast into a pipe. If the outer diameter and thickness of the pipe are 8 cm and 1 cm, respectively, then the length of the pipe is:

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

Question ID : 9679475704

Status : Not Answered

Chosen Option : --

Q.70 A student wrote exams on six question papers of maximum marks 100 each, one on English, two on Mathematics and three on Science. He got 95% in English, 90% in Mathematics and 80% in Science. What is her approximate overall percentage?

Ans 1. 88.3%
 2. 83.5%
 3. 85.8%
 4. 84.9%

Question ID : 9679475718

Status : Not Answered

Chosen Option : --



Q.71 The solution set of $2x - 1 > x + \frac{7-x}{3} > 2, x \in R$ is:

Ans

✓ 1. $\left[\frac{5}{2}, \infty\right)$

✗ 2. $(-\infty, \frac{5}{2})$

✗ 3. $(0, \frac{5}{2})$

✗ 4. $\left(0, \frac{5}{2}\right]$

Question ID : 9679475681

Status : Not Answered

Chosen Option : --

Q.72 If a card is drawn from a deck of 52 cards, then the probability of getting a king or a heart or a red card is:

Ans

✓ 1. $\frac{7}{13}$

✗ 2. $\frac{1}{13}$

✗ 3. $\frac{5}{13}$

✗ 4. $\frac{2}{13}$

Question ID : 9679475719

Status : Not Answered

Chosen Option : --

Q.73 If α, β are the roots of $x^2 - k(x + 1) - c = 0$, then $(1 + \alpha)(1 + \beta) = \text{_____}$.

Ans

✗ 1. 1

✗ 2. c

✗ 3. $1 + c$

✓ 4. $1 - c$

Question ID : 9679475666

Status : Not Answered

Chosen Option : --

Q.74 If $y = 2^{\frac{x}{\log x}}$, then $\frac{dy}{dx}$ at $x = e$ is:

Ans 1. $2^e \log 2$
 2. 0
 3. e
 4. $\log 2$

Question ID : 9679475691

Status : Not Answered

Chosen Option : --

Q.75 If $A + B = \frac{\pi}{4}$, then $(1 + \tan A)(1 + \tan B) = \underline{\hspace{2cm}}$.

Ans 1. $\frac{1}{2}$
 2. 2
 3. $\tan A$
 4. $2\tan A \tan B$

Question ID : 9679475709

Status : Not Answered

Chosen Option : --

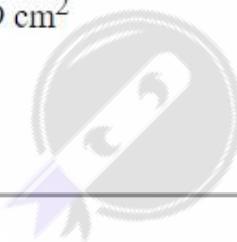
Q.76 If the sides of triangle are $a = 3$ cm, $b = 4$ cm, $c = 5$ cm, then its area is:

Ans 1. 8 cm^2
 2. 12 cm^2
 3. 6 cm^2
 4. 9 cm^2

Question ID : 9679475695

Status : Not Answered

Chosen Option : --



Q.77 The value of m so that the equation $3x^2 - 2mx - 4 = 0$ and $x(x - 4m) + 2 = 0$ may have a common root is:

Ans

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

2. $-\frac{1}{2}$

3. $\pm 1/\sqrt{2}$

4. $\pm 3/\sqrt{2}$

Question ID : 9679475668

Status : Not Answered

Chosen Option : --

Q.78 The value of k for which the pair of equations $3x + 4y + 2 = 0$ and $9x + 12y + k = 0$ represent coincident lines are:

Ans

1. 2

2. 12

3. 3

4. 6

Question ID : 9679475657

Status : Not Answered

Chosen Option : --

Q.79 A continuous random variable X has a PDF of $f(x) = 3x^2, 0 \leq x \leq 1$. If $P(X \leq a) = P(X > a)$, then $a = \underline{\hspace{2cm}}$.

Ans

1. $\left(\frac{1}{2}\right)^{\frac{1}{3}}$

2. $\left(\frac{1}{2}\right)^{\frac{1}{4}}$

3. $\frac{1}{2}$

4. $\left(\frac{1}{2}\right)^{\frac{1}{2}}$

Question ID : 9679475723

Status : Not Answered

Chosen Option : --

Q.80 Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of the reservoir is 108 m^3 , then the number of hours it will take to fill the reservoir is:

Ans 1. 36 hours
 2. 12 hours
 3. 30 hours
 4. 24 hours

Question ID : 9679475705

Status : Not Answered

Chosen Option : --

Q.81 Identify the correct order of teaching-learning materials in the Edgar Dale's Cone of Experiences which has continuum of 'Concreteness to Abstract'.

Ans 1. Visual Symbols, Verbal Symbols, Field Trips, Motion Pictures
 2. Demonstration, Dramatic Participation, Field Trips, Exhibits
 3. Demonstrations, Field Trips, Exhibits, Motion Pictures
 4. Motions Pictures, Field Trips, Demonstrations, Visual Symbols

Question ID : 9679475736

Status : Answered

Chosen Option : 2

Q.82 For the teachers, _____ means converting his/her vision of the teaching-learning process in his/her classroom to action.

Ans 1. a pedagogical plan
 2. an action plan
 3. a lesson plan
 4. a vision plan

Question ID : 9679475740

Status : Answered

Chosen Option : 3

Q.83 _____ is the type of assessment, in which the teacher tries to embed various forms of assessment all through the teaching-learning process.

Ans 1. Authentic assessment
 2. Summative assessment
 3. Remedial assessment
 4. Formative assessment

Question ID : 9679475739

Status : Answered

Chosen Option : 4

Q.84 Identify the correct order of preparing a lesson plan.

- P - Develop the Introduction
- Q - Outline learning objectives
- R - Create a realistic timeline
- S - Plan to check for understanding
- T - Plan the specific learning activities
- U - Develop a conclusion and a preview

Ans

- 1. QRSTPU
- 2. PQRSTU
- 3. QPTSUR
- 4. QRPTUS

Question ID : 9679475737

Status : Answered

Chosen Option : 2

Q.85 Match the following activities organized by CBSE with their appropriate initiatives.

Set 1	Set 2
a. Expression Series	1. Enhances appreciation of sustainability issues among students
b. Water conservation Campaign	2. An ideal platform to inculcate a sense of biodiversity
c. Heritage India Quiz (HIQ)	3. Bring a greater awareness about rich cultural heritage
d. TERI Green Olympiad	4. A platform to represent their ideas on issues of national concerns
e. WWF-India Wild Wisdom Quiz	5. To preserve one liter of water per child per day
	6. A medium for popularizing Science

Ans

- 1. a-4, b-5, c-3, d-1, e-2
- 2. a-3, b-5, c-6, d-2, e-1
- 3. a-6, b-2, c-3, d-2, e-4
- 4. a-1, b-2, c-3, d-4, e-5

Question ID : 9679475732

Status : Answered

Chosen Option : 1

Q.86 From the given set of statements which of the statements will be INCORRECT in the constructivist approach?

- a. Students perform learning tasks individually.
- b. Students share the ideas and construct the knowledge.
- c. One-way transmission is done in the teaching-learning process.
- d. Textual questions are asked and learnt by Herbartian method.
- e. No sharing of ideas between the students in the classroom.
- f. Students perform tasks in groups and teacher acts as facilitator.

Ans ✓ 1. c, d and e
✗ 2. d, e and f
✗ 3. a, b, c and d
✗ 4. b, c and e

Question ID : 9679475729

Status : **Answered**

Chosen Option : 1

Q.87 What would be the most desired set of purposes for a teacher to use TLM's (Teaching Learning Materials) in the classroom setup?

- a. Motivating learners for holistic learning
- b. Facilitating rote-learning approach
- c. Facilitating change in attitudes
- d. For saving the teacher's time and energy
- e. Helping learners in concept formation

Ans ✗ 1. a, b and c only
✗ 2. b, c and d only
✓ 3. a, c and e only
✗ 4. c, d and e only

Question ID : 9679475728

Status : **Answered**

Chosen Option : 3

Q.88 Select the type of curriculum in which the primary purpose is to confront the learner with the severe problems faced by humankind.

Ans ✓ 1. Social-reconstructionist curriculum
✗ 2. Community-centred curriculum
✗ 3. Subject-centred curriculum
✗ 4. Student-centred curriculum

Question ID : 9679475725

Status : **Answered**

Chosen Option : 2

Q.89 What is the full form of the acronym DIKSHA?

Ans ✗ 1. Digital Initiative for Knowledge Sharing
✓ 2. Digital Infrastructure for Knowledge Sharing
✗ 3. Digital Initiative for Knowing and Sharing
✗ 4. Digital Information for Knowledge Sharing

Question ID : 9679475734

Status : **Answered**

Chosen Option : 1

Q.90 The government of India had adopted an initiative named 'Shala Darpan' towards e-governance. What it is all about?

Ans 1. Provide services based on SMS (School Management Systems)
 2. An e-resource platform that talks about digital learning
 3. An initiation of modern facilities in the classrooms
 4. A site that consists of videos on innovations in school education

Question ID : 9679475735

Status : Not Answered

Chosen Option : --

Q.91 Which of the following characteristics will NOT be the most appropriate point in the process of storytelling?

Ans 1. Dialogue and conversation between teacher and pupils are absent
 2. Encourages children to think and articulate their own response
 3. Gives the children the space to express their emotional needs
 4. Makes children future-ready with the essential skills of critical thinking

Question ID : 9679475741

Status : Answered

Chosen Option : 1

Q.92 What do you mean by an ombudsperson?

Ans 1. One who is a part of grapevine communication in the office
 2. It is beneficial when communication is necessary between peers
 3. A position created to receive and respond to inquiries, complaints, etc.
 4. A person who is so talkative in person and seldom stops chatting

Question ID : 9679475743

Status : Not Answered

Chosen Option : --

Q.93 _____ is an initiative taken up by Central Board of Secondary Education to broadcast the vital information to students and parents promptly.

Ans 1. VIDYA-DAAN
 2. DIKSHA
 3. AKASH-VANI
 4. SHIKSHA-VANI

Question ID : 9679475733

Status : Not Answered

Chosen Option : --

Q.94 In the Blooms' Taxonomy, the psychomotor domain is mostly concerned with which of the ability?

Ans 1. Handwriting and map drawing ability

2. Development of intellectual ability

3. Development of appreciation ability

4. Creativity and insightful ability

Question ID : **9679475731**

Status : **Answered**

Chosen Option : **1**

Q.95 In the components of non-verbal communication, what is oculistics?

Ans 1. The technical term for the personal space aspect of body language

2. The study of the role of eye-contact in non-verbal communication

3. The study of variation in pitch, speed, volume and pauses to convey meaning

4. The study of the use of time in non-verbal communication

Question ID : **9679475744**

Status : **Not Answered**

Chosen Option : **--**

Q.96 What role does a portfolio play in the assessment for learning?

Ans 1. A broad perspective that might go from local to national and international

2. Enables a child to understand the world of computer and electronics

3. Prepares a child to discover innovative approaches and ideas

4. Enables the creation of an archive or documentation of all the work done

Question ID : **9679475738**

Status : **Answered**

Chosen Option : **4**

Q.97 What would be the most appropriate advantages of the community-centred curriculum for the learners?

- a. Increase in students' awareness of social issues
- b. Awareness regarding local economy to world to national situations
- c. Helpful to provide conscious efforts towards current events
- d. Awareness of political practices in relation to economic factors

Ans 1. a and c only

2. b and c only

3. a, b and c

4. b, c and d

Question ID : **9679475726**

Status : **Answered**

Chosen Option : **1**

Q.98 What will be the role of a teacher in the Play-Way method that can enrich the learners' experience in the classroom?

Ans 1. To boost confidence to learn from rote
 2. To arrange the activities from complex to simple concepts
 3. To ignore the evaluation process while the students play
 4. To design learning activities and prepare relevant teaching-learning materials

Question ID : **9679475730**

Status : **Answered**

Chosen Option : **4**

Q.99 Select the most appropriate learner-centred method/approach in the classroom.

Ans 1. Problem-solving method
 2. Lecture method
 3. Herbartian method
 4. Demonstration method

Question ID : **9679475727**

Status : **Answered**

Chosen Option : **1**

Q.100 Select the type of communication in which the people who are actively involved, boundary spanners.

Ans 1. Lateral Communication
 2. Interactive Communication
 3. Organisational Communication
 4. Upward Communication

Question ID : **9679475742**

Status : **Not Answered**

Chosen Option : **--**

