

Commissionerate of School Education-Government of Andhra Pradesh

Notations :

- 1.Options shown in **green** color and with  icon are correct.
- 2.Options shown in **red** color and with  icon are incorrect.

Question Paper Name :	TGT NL Maths 6th June 2025 Shift 1
Subject Name :	TGT NL Maths
Creation Date :	2025-06-06 14:53:46
Duration :	150
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Display Marks:	No
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TGT NL Maths

Group Number :	1
Group Id :	39226610
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	80

Section 1

Section Id :	39226654
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	10
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	39226654

Question Shuffling Allowed :

Yes

Question Number : 1 Question Id : 3922661441 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct statement related to Aadhar Card

1. Started at Jabalpur, Madhya Pradesh
2. Logo was created by Madhusudan Pandey
3. Every card has 12 digits number
4. First Biometric data ID card in Asia

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 2 Question Id : 3922661442 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Expand TRYSEM

1. Training of Rural Youth for Sustainable Employment and Management
2. Technical Rural Youth Skill Enhancement Mission
3. Teaching Resource for Young Students in Educational Mass Multimedia
4. Training of Rural Youth for Self Employment

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 3 Question Id : 3922661443 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the mismatched pair related to Books and Authors

1. The Road Ahead - Robert Frost
2. Out of My Comfort Zone - Steve Waugh
3. First Person - Vladimir Putin
4. My Country My Life - L. K. Advani

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 4 Question Id : 3922661444 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Dynamite was invented by

1. Thomas Alva Edison
2. Alfred B. Nobel
3. Alexander Graham Bell
4. Isaac Newton

Options :

1. ✗ 1

2. ✓ 2

3. ✗ 3

4. ✗ 4

Question Number : 5 Question Id : 3922661445 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The language widely spoken all over the World

1. Urdu
2. German
3. English
4. French

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 6 Question Id : 3922661446 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Major objective of 'Star Gate' project is

1. Control over the entry of satellites in the space
2. China control over AI humanoids
3. Russian control over oil resources
4. American control over all AI related large language models

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 7 Question Id : 3922661447 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Pan India Government Services are accessible to citizens through

1. C VIGIL
2. e-Pramaan
3. Hanooman
4. UMANG

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 8 Question Id : 3922661448 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Quit India Movement is also known as

1. July movement
2. August movement
3. September movement
4. October movement

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 9 Question Id : 3922661449 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the mismatched pair

1. Tennis - Jaidip Mukerjee
2. Hockey - Leslie Claudius
3. Badminton - Aparna Popat
4. Football - Dhanraj Pillay

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 10 Question Id : 3922661450 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This river that flows through Badrinath

1. Mahanadi
2. Alaknanda
3. Brahmaputra
4. Bhagirathi

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 11 Question Id : 3922661451 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Equinox occurs on

1. March 23, September 21
2. March 23, December 21
3. March 21, September 23
4. March 21, March 23

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 12 Question Id : 3922661452 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

One of the following is NOT a warship

1. INS Sivalik
2. INS Satpura
3. INS Sahyadri
4. INS Vikranth

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 13 Question Id : 3922661453 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

‘Neel Darpan’ a Bengali Play was written by

1. Deenabandhu Mitra
2. Deenabandhu Mishra
3. Deendayal Mitra
4. Deendayal Sharma

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 14 Question Id : 3922661454 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

National Remote Sensing Agency is located in

1. Bengaluru
2. Hyderabad
3. Sriharikota
4. Thiruvananthapuram

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 15 Question Id : 3922661455 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The first Indian musician who won three Grammy awards at a time in 2024 is

1. Pandit Ravisankar
2. Alla Rakha Khan
3. Ustad Zakir Hussain
4. Pandit Siva Kumar Sharma

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 16 Question Id : 3922661456 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Stella-L-Panama-IMO 9500687 Ship exports rice from Kakinada Port to this port located in West Africa

1. Port of Benin
2. Port of Guinea
3. Port of Cotonou
4. Port of Niger

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 17 Question Id : 3922661457 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The winner of Pro Kabaddi season 11 is

1. Haryana Steelers
2. Patna Pirates
3. Telugu Titans
4. Gujarat Giants

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 18 Question Id : 3922661458 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The tenure of the Supreme Court Chief Justice Sanjiv Khanna is from

1. 10th November, 2024 to 10th November, 2025
2. 11th November, 2024 to 15th December, 2025
3. 11th November, 2024 to 1st May, 2025
4. 11th November, 2024 to 13th May, 2025

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 19 Question Id : 3922661459 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Pantsir – S1, S-400 Triumf missiles belongs to this country

1. Japan
2. Russia
3. China
4. Australia

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 20 Question Id : 3922661460 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Theme for 5th National EMRS Cultural & Literacy fest and Kalaustav, held from November 12 to 15, 2024 in Bhubaneswar is

1. Making Odisha a global tourist spot.
2. Our culture our future
3. Celebrate our culture and heritage
4. A Tribute to Bhagwan Birsa Munda & Tribal Freedom fighters

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Section 2

Section Id :

39226655

Section Number :

2

Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	5
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	39226655
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 3922661461 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The constructor of knowledge in constructivism is a / the

1. Student
2. Teacher
3. Headmaster
4. Parents

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 22 Question Id : 3922661462 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

“The first principle of teaching is that nothing can be taught” –
is said by this Indian Philosopher

1. Gandhiji
2. Arabindo
3. Vivekananda
4. Sarvepalli Radha Krishnan

Options :

1. ✗ 1
2. ✓ 2

3. ✖ 3

4. ✖ 4

Question Number : 23 Question Id : 3922661463 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the correct answer

- | | | | |
|----|----------|------|-------------------------|
| A. | Memamsa | i. | Higher education centre |
| B. | Tol | ii. | Educated women |
| C. | Vidhushi | iii. | Knowledgeable person |
| D. | Maneeshi | iv. | Book |

1. A – iv, B – iii, C – ii, D – i
2. A – i, B – iv, C – ii, D – iii
3. A – iv, B – i, C – ii, D – iii
4. A – iii, B – ii, C – i, D – iv

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 24 Question Id : 3922661464 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The proposal/s of NEP 2020

- A) 50 hours of CPD training to Headmasters per year
- B) Gender Inclusive Fund to promote girl education
- C) Establishment of Special Education Zones in tribal backward areas.

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

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 25 Question Id : 3922661465 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

According to the Right to Education Act – 2009, number of teaching hours provided in an academic year for classes 6 to 8

- 1. 800
- 2. 900
- 3. 1000
- 4. 1100

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 26 Question Id : 3922661466 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The National Committee for Protection of Child Rights was formed in the year

1. 2005
2. 2007
3. 2009
4. 2010

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 27 Question Id : 3922661467 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Mid – Day – Meal was first started in India for poor students by

1. Madras Municipal Corporation in 1925
2. Kesava Academy, Calcutta in 1928
3. Kerala State in 1941
4. Servants of India Society - 1905

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 28 Question Id : 3922661468 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

According to WHO, this is a Negotiation Skill

1. Creative thinking
2. Stress management, coping with emotions
3. Problem solving skills
4. Decision making skill

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 29 Question Id : 3922661469 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The Chattopadhyaya Commission, that studied issues related to teachers and had submitted its report in this year

1. 1985
2. 1990
3. 1980
4. 2000

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 30 Question Id : 3922661470 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is NOT the recommendation made by The National Committee on Women's Education – 1958-59

1. Scholarships should be given to girls.
2. Female teachers should be appointed.
3. Co-education should be encouraged.
4. Introduction of gender neutral curriculum only after post graduation level.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Section 3

Section Id :	39226656
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	5
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	39226656
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 3922661471 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Neurogram is

1. The process of storing short-term memory into long term memory.
2. The emotional response to a memory.
3. Conserved memory images formed by virtue of experience or learning in brain.
4. The neural path way that transmits sensory information to brain.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 32 Question Id : 3922661472 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A boy who knows the importance of neat handwriting, he writes all subjects in a neat hand writing. The theory of transfer of learning that supports this example is

1. Theory of Formal Discipline
2. Theory of Ideals
3. Theory of Identical Elements
4. Theory of Transposition

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 33 Question Id : 3922661473 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Project based assessment can be done by using

1. Standardized multiple choice questions
2. Summative Assessment Question paper
3. Rubrics and Worksheets
4. Yes / No type questions, Rating scale

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 34 Question Id : 3922661474 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

One of the following pair of psychologists studied personality through Humanistic Approach

1. Abraham Maslow, Albert Bandura
2. Carl Rogers, Abraham Maslow
3. Albert Bandura, Carl Rogers
4. Allport, Albert Bandura

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 35 Question Id : 3922661475 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The assessment that is used to identify children's aptitude to know their future skill development is

1. Diagnostic Assessment
2. Summative Assessment
3. Teacher made Assessment
4. Prognostic Assessment

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 36 Question Id : 3922661476 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The factor that determines one's ultimate niche in society is

1. Social Intelligence
2. Intelligence quotient
3. Emotional Intelligence
4. Abstract Intelligence

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 37 Question Id : 3922661477 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A neurological condition that affects a person's ability to read and process written language is

1. Dysphasia
2. Dysgraphia
3. Dyspepsia
4. Dyslexia

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 38 Question Id : 3922661478 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Formula for Long method of arithmetic mean of grouped data

1. $\frac{fn}{x} \times \Sigma$
2. $\frac{\Sigma fx}{N}$
3. $\frac{fx}{n}$
4. $\frac{\Sigma x}{fn}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 39 Question Id : 3922661479 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the correct sentence regarding 'Habits'

1. Habits are universal.
2. Habits cannot be changed.
3. Habits are physical or mental acts.
4. Habits are innate.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 40 Question Id : 3922661480 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Complex amalgamation of abilities and attributes is

1. Needs
2. Creativity
3. Aptitude
4. Intelligence

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Section 4

Section Id :	39226657
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	80
Number of Questions to be attempted :	80
Section Marks :	40
Maximum Instruction Time :	0

Sub-Section Number :

1

Sub-Section Id :

39226657

Question Shuffling Allowed :

Yes

Question Number : 41 Question Id : 3922661481 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A bag contain 50 balls numbered 1 to 50. Now the balls which are multiples of 12 are removed from bag. The probability to get a ball which is factor of 12.

1. $\frac{3}{23}$

2. $\frac{1}{10}$

3. $\frac{5}{46}$

4. $\frac{3}{25}$

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 42 Question Id : 3922661482 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A regular Dodecahedron contains 12 faces. All faces are numbered with natural numbers from 1 to 12. The difference between probability of getting an even number and probability of getting a prime number is

1. $\frac{11}{12}$

2. $\frac{1}{12}$

3. $\frac{5}{12}$

4. $\frac{7}{12}$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 43 Question Id : 3922661483 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The probability of getting 53 Mondays in a leap year is

1. $\frac{3}{7}$

2. $\frac{2}{7}$

3. $\frac{1}{366}$

4. $\frac{7}{366}$

Options :

1. ✖ 1

2. ✓ 2

3. ✗ 3

4. ✗ 4

Question Number : 44 Question Id : 3922661484 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The probability of getting a red coloured even numbered card from a deck of cards is

1. $\frac{9}{26}$

2. $\frac{9}{13}$

3. $\frac{5}{13}$

4. $\frac{5}{26}$

Options :

1. ✗ 1

2. ✗ 2

3. ✗ 3

4. ✓ 4

Question Number : 45 Question Id : 3922661485 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A bag contains 7 red balls and 8 blue balls. If 2 balls are picked at random one by one without replacement then the probability that the first ball is blue and second ball is red is

1. $\frac{4}{15}$
2. $\frac{8}{15}$
3. $\frac{7}{15}$
4. $\frac{4}{7}$

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 46 Question Id : 3922661486 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The centroid of $\triangle ABC$ is $(2, -1)$ and its vertex $A = (3, -5)$ then the midpoint of BC is

1. $\left(\frac{3}{2}, 1\right)$
2. $\left(\frac{9}{2}, 2\right)$
3. $\left(3, \frac{11}{2}\right)$
4. $(3, -4)$

Options :

1. ✓ 1
2. ✗ 2

3. ✖ 3

4. ✖ 4

Question Number : 47 Question Id : 3922661487 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The vertices of a square ABCD are $A = (6,9)$, $B = (11,8)$, $C = (10,3)$ and $D = (5,4)$. Diagonals are intersecting at 'X' then the area of $\triangle AXB$ is (in square units)

1. 6.5

2. 26

3. 13

4. 3.25

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 48 Question Id : 3922661488 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The centroid of a triangle formed by the co-ordinate axes and the line $x - y - 6 = 0$ is

1. $(3, -3)$

2. $(-3, 3)$

3. $(2, -2)$

4. $(-2, 2)$

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 49 Question Id : 3922661489 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The lines $x + 2y = 3$ and $3x - 2y = 1$ meet the y-axis at two distinct points then the distance between the points

1. $\frac{8}{3}$ units
2. $\frac{4}{3}$ units
3. 2 units
4. 1 unit

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 50 Question Id : 3922661490 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The sides of a triangular plot are in the ratio of 3:5:7 and its perimeter is 300m. If the area triangles is $a\sqrt{3}$, then the value of 'a' is

1. 1500
2. 1800
3. 2200
4. 2500

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 51 Question Id : 3922661491 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the line joining A (4,1,2) , B (5,x,0) is perpendicular to the line joining C (1,2,3), D (3,5,7), then the value of 'x' is

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 52 Question Id : 3922661492 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

When the origin is shifted to (3,-1) by the translation of axes, the co-ordinates of a point 'P' are changed as (-2,-4). The coordinates of 'P' in original system

1. (-5, -3)
2. (5, 3)
3. (-1, 5)
4. (1, -5)

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 53 Question Id : 3922661493 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the equation $ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0$ represents a pair of straight lines intersecting at the origin then

1. $g = f = 0, c \neq 0$
2. $g = f = c = 0$
3. $g = c = 0, f \neq 0$
4. $g \neq 0, f=c=0$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 54 Question Id : 3922661494 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The focus of the parabola $x^2 + 8y = 0$

1. $(0, -2)$
2. $(-2, 0)$
3. $(0, 2)$
4. (-2)

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 55 Question Id : 3922661495 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT TRUE**

1. $\tan \theta . \sin \theta . \operatorname{Cosec} \theta = \sqrt{\sec ^2 \theta -1}$

2. $\cos ^2 \theta (1+\cot ^2 \theta)=\cot ^2 \theta$

3. $\frac{\cos ^2 \theta}{1-\cos ^2 \theta}-\operatorname{Cosec}^2 \theta=1$

4. $\frac{\sec \theta . \cos \theta}{\cot \theta . \tan \theta}=1$

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 56 Question Id : 3922661496 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Two men on either side of an electric pole of $15 \sqrt{3}$ meter height observe its top at the angles of elevation 30° and 45° respectively. Then the distance between the two men in meters

1. $15(3+\sqrt{3})$

2. $60 \sqrt{3}$

3. $20 \sqrt{3}$

4. $15(3-\sqrt{3})$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 57 Question Id : 3922661497 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In a $\triangle ABC$, $\angle B = 90^\circ$, $AB = 5\text{cm}$, and $\angle ACB = 30^\circ$, then $\sin A + \cos C =$

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

Options :

1. ☒ 1
2. ☐ 2
3. ☐ 3
4. ☐ 4

Question Number : 58 Question Id : 3922661498 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A chord of a circle of radius 6cm is making an angle 120° at the centre, then the area of triangle formed by the chord and radii in centimeters.

1. $3\sqrt{3}$
2. $6\sqrt{3}$
3. $9\sqrt{3}$
4. $2\sqrt{3}$

Options :

1. ☐ 1
2. ☐ 2
3. ☒ 3
4. ☐ 4

Question Number : 59 Question Id : 3922661499 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\frac{\tan \theta}{\sec \theta - 1} + \frac{\tan \theta}{\sec \theta + 1} =$$

1. $2 \sec \theta$
2. $2 \tan \theta$
3. $2 \operatorname{cosec} \theta$
4. $2 \cot \theta$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 60 Question Id : 3922661500 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If $\operatorname{Cosec} \theta + \cot \theta = \frac{1}{3}$, ($0 < \theta < 90^\circ$) then the value of $\operatorname{Cosec} \theta$ is

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 61 Question Id : 3922661501 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The value of $6 \sin 20^\circ - 8 \sin^3 20^\circ$

1. $\frac{1}{2}$
2. $\sqrt{3}$
3. $-\frac{\sqrt{3}}{2}$
4. $-\frac{1}{\sqrt{2}}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 62 Question Id : 3922661502 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If $\cos \theta = \frac{-3}{5}$ and $\pi < \theta < \frac{3\pi}{2}$ then the value of $\tan \frac{\theta}{2}$

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 63 Question Id : 3922661503 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The value of $\tanh^{-1}\left(\frac{1}{3}\right)$

1. $\frac{1}{2}\log_e 4$
2. $\log_e \sqrt{2}$
3. $\frac{1}{2}\log_e 3$
4. $\log_e \left(\frac{1+\sqrt{10}}{3}\right)$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 64 Question Id : 3922661504 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The expression $\frac{(1 + \tan^2 \theta)(1 - \sin \theta)(\sin \theta + 1)}{(\cos \theta + 1)(1 - \cos \theta)}$ is equal to

1. $\sin^2 \theta$
2. $\tan^2 \theta$
3. $\operatorname{cosec}^2 \theta$
4. $\cot^2 \theta$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3

4. ✖ 4

Question Number : 65 Question Id : 3922661505 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

If the vectors $a = 2i - j + k$, $b = i + 2j - 3k$ and $c = 3i + pj + 5k$ are coplanar, then $p =$

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 66 Question Id : 3922661506 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

For two vectors a, b ,

If $|a| = 12$, $|b| = 5$ and $(a, b) = \frac{\pi}{6}$, then $|a \times b|^3 =$

1. 4913
2. 1728
3. 8000
4. 27000

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 67 Question Id : 3922661507 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Let $\overrightarrow{OA} = \frac{1}{2}i + 3j + 4k$, $\overrightarrow{OB} = 2i + 3j + 6k$ are two vectors. Then the length of vector AB is

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

2. $\frac{\sqrt{425}}{2}$

3. $\frac{23}{2}$

4. $\frac{25}{2}$

Options :

1.  1

2.  2

3.  3

4.  4

Question Number : 68 Question Id : 3922661508 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\int xe^x dx, x \in R =$$

1. $xe^{x-1} + c$

2. $xe^{x+1} + c$

3. $(x+1)e^x + c$

4. $(x-1)e^x + c$

Options :

1.  1

2.  2

3.  3

4.  4

Question Number : 69 Question Id : 3922661509 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

If $y = \frac{ax+b}{cx+d}, |c| + |d| \neq 0$ then $\frac{dy}{dx} =$

1. $\frac{bc-ad}{(cx+d)^2}$
2. $\frac{ad-bc}{(cx+d)^2}$
3. $\frac{ad-cd}{cx+d}$
4. $\frac{ad-cd}{(cx+d)^2}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 70 Question Id : 3922661510 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

$\lim_{x \rightarrow \infty} \frac{3x^2 + 4x + 5}{2x^3 + 3x - 7} =$

1. $\frac{3}{2}$
2. $\frac{2}{3}$
3. $\frac{-5}{7}$
4. 0

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 71 Question Id : 3922661511 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\int_0^5 (x+1) dx =$$

1. $9\frac{1}{2}$
2. $13\frac{1}{2}$
3. $17\frac{1}{2}$
4. $21\frac{1}{2}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 72 Question Id : 3922661512 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Two types of sugars ₹130 per kg ₹139 per kg are combined along with a new type of sugar in the ratio 1:1:2. If the combination cost is ₹163 per kg then the price of the new type of sugar per kg in rupees is

1. 170.50
2. 179.50
3. 185.50
4. 191.50

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 73 Question Id : 3922661513 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If Charitha's income is 30% more than that of Suguna then Suguna's income is less than Charitha's income by (approximately)

1. 23.08%
2. 24.2%
3. 25.4%
4. 26.3%

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 74 Question Id : 3922661514 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

On selling an article for ₹1836 a shopkeeper got 8% profit. If shopkeeper wants to get a profit of 11% then he should sell the article for

1. ₹1982.9
2. ₹1891
3. ₹1857
4. ₹1887

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 75 Question Id : 3922661515 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If $x\%$ of $x + 40\%$ of $40 = 50\%$ of 50 then $x =$

1. 3
2. 30
3. 60
4. 45

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 76 Question Id : 3922661516 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A container contains 40 liters of milk. From this container 4 liters of milk was taken apart and replaced by water to remain the volume constant. This process was repeated further 2 times. Now the number of liters of milk in the container is

1. 26
2. 28.2
3. 27.6
4. 29.16

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 77 Question Id : 3922661517 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A dealer marks his goods at 13% above the cost price and allows a discount of 5%. His profit percentage is

1. 7.25%
2. 7.35%
3. 7.45%
4. 7.15%

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 78 Question Id : 3922661518 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The compound interest on ₹12000 for 2 years at 10% p.a compounded annually

1. ₹ 14,520
2. ₹ 14,400
3. ₹ 2,520
4. ₹ 2,400

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 79 Question Id : 3922661519 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is TRUE

1. The whole number 1 has no predecessor
2. The successor of a two digit number is always a two digit number
3. Number of whole numbers between 32 and 53 is 21
4. The sum of first 10 whole numbers is 45

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 80 Question Id : 3922661520 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

If $3^{\log_3^7} = a$, then $\log_{\sqrt{a}} 49 - \log_7 \sqrt{a} =$

1. $3\frac{1}{2}$
2. $4\frac{1}{2}$
3. $5\frac{1}{2}$
4. $6\frac{1}{2}$

Options :

1. ☒ 1
2. ☐ 2
3. ☐ 3
4. ☐ 4

Question Number : 81 Question Id : 3922661521 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Ram ate $\frac{3}{7}$ part of a cake while his brother Ravi ate $\frac{1}{4}$ of remaining part of cake. Then the part of cake left is

1. $\frac{1}{7}$
2. $\frac{3}{7}$
3. $\frac{19}{28}$
4. $\frac{9}{28}$

Options :

1. ☐ 1
2. ☒ 2

3. ✖ 3

4. ✖ 4

Question Number : 82 Question Id : 3922661522 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\sqrt{40.96} + \sqrt{0.1764} - \sqrt{31.36} =$$

1. 12.42

2. 1.42

3. 1.22

4. 1.02

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 83 Question Id : 3922661523 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\text{If } x = \frac{5 + \sqrt{6}}{3^{\frac{3}{2}} - 2^{\frac{3}{2}}}, \text{ then } \left(x + \frac{1}{x}\right)^2 =$$

1. 3

2. 12

3. 18

4. 25

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 84 Question Id : 3922661524 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The number of digits be in the repeating block of digits in the decimal expansion of $\frac{1}{7}$

1. 4
2. 5
3. 7
4. 6

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 85 Question Id : 3922661525 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$\frac{1}{1+x^{a-b}} + \frac{1}{1+x^{b-a}} - 4 =$$

1. -3
2. 0
3. 1
4. 5

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 86 Question Id : 3922661526 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the statement which is **NOT TRUE**

1. $A = \{x : x \text{ is even number}\}$, $B = \{x : x \text{ is odd number}\}$ are mutually disjoint sets
2. $\{x : x+5 = 5, x \in \mathbb{Z}\}$ is not an empty set
3. $\{x : x \in \mathbb{Q} \text{ and } x < 10\}$ is a finite set
4. Empty set is a sub set of every set

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 87 Question Id : 3922661527 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The angle formed between two tangents, drawn from outside point which is at a distance of 10cm from center of the circle having radius 5cm is

1. 60°
2. 120°
3. 30°
4. 45°

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 88 Question Id : 3922661528 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

ABCD is a cyclic quadrilateral and centre of the circle is 'O'

If $\angle ADB = 60^\circ$, then $\angle AOB + \angle ACB$ is

1. 30°
2. 120°
3. 150°
4. 180°

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 89 Question Id : 3922661529 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

E and F are points on the sides PQ and PR respectively of $\triangle PQR$. In which of the following cases $EF \parallel QR$

1. $PE = 3.9\text{cm}$ $EQ = 3\text{cm}$ $PF = 3.6\text{cm}$ $FR = 2.4\text{cm}$
2. $PE = 3.9\text{cm}$ $EQ = 3\text{cm}$ $PF = 4.8\text{cm}$ $FR = 2.4\text{cm}$
3. $PE = 4.5\text{cm}$ $EQ = 3\text{cm}$ $PF = 3.6\text{cm}$ $FR = 2.4\text{cm}$
4. $PE = 4.5\text{cm}$ $EQ = 3\text{cm}$ $PF = 4.8\text{cm}$ $FR = 2.4\text{cm}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 90 Question Id : 3922661530 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The first known proof given for the statement “A circle is bisected by its diameter” is

1. Thales
2. Pythagoras
3. Bhaskaracharya
4. Euclid

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 91 Question Id : 3922661531 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Diagonals are perpendicular to each other in the following figures

- | | |
|---------------|-------------------|
| (A) Rectangle | (B) Square |
| (C) Rhombus | (D) Parallelogram |

1. ‘A’ and ‘B’ only
2. ‘A’ and ‘C’ only
3. ‘B’ and ‘C’ only
4. ‘A’, ‘B’ and ‘C’ only

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 92 Question Id : 3922661532 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A transversal is drawn on two parallel lines. If $3x+7^\circ$ and $2x+3^\circ$ are the interior angles on the same side of transversal then the value of 'x' is

1. 170°
2. 90°
3. 45°
4. 34°

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 93 Question Id : 3922661533 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The complementary angle of an angle is half of it, then its supplementary angle is

1. 45°
2. 60°
3. 120°
4. 135°

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 94 Question Id : 3922661534 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In a trapezium ABCD, $AB \parallel CD$. If $\angle B = 3x + 20^\circ$ and $\angle C = 2x + 30^\circ$ then value of 'x' is

1. 50°
2. 24°
3. 36°
4. 26°

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 95 Question Id : 3922661535 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the diameter of the cross-section of a wire is decreased by 50% then the length should be increased _____ percentage, so that the volume remains the same.

1. 400%
2. 350%
3. 300%
4. 250%

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 96 Question Id : 3922661536 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A_1 is the area of square whose side is $2a$ units
 A_2 is the area of rectangle whose dimensions are $2a$ units, $1.5a$ units and A_3 is the area of circle whose diameter is $2a$ units. The relation among A_1, A_2 and A_3 is

1. $A_1 > A_2 > A_3$
2. $A_1 > A_3 > A_2$
3. $A_3 > A_2 > A_1$
4. $A_3 > A_1 > A_2$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 97 Question Id : 3922661537 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

ABCD is a square. E, F are mid-points of sides AB and CD respectively. AF meets BD at P, CE meets BD at Q and $AB = 4\sqrt{2}$ cm, then the length of PQ is

1. $2\frac{2}{3}$ cm
2. $2\frac{1}{3}$ cm
3. $\frac{4}{3}\sqrt{2}$ cm
4. $2\frac{\sqrt{2}}{3}$ cm

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3

4. ✖ 4

Question Number : 98 Question Id : 3922661538 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Ramayya rolls a sheet of square shaped paper, along its side to make it a cylinder. Then the ratio of the base diameter of cylinder to side of the square is

1. $1:2\pi$
2. $1:\pi$
3. $2:\pi$
4. $\pi:2$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 99 Question Id : 3922661539 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The curved surface area of a cylindrical pillar is 264m^2 and its volume is 924m^3 . Then the ratio of its diameter to height is

1. $3:7$
2. $7:3$
3. $6:7$
4. $7:6$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 100 Question Id : 3922661540 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the statements are sufficient to find the area of a right angled triangle?

- (i) The perimeter of the triangle is 30cm
 - (ii) The ratio between the base and the height of the triangle is 5:12
 - (iii) The area of the triangle is equal to the area of rectangle of length 10cm
- 1. (i) and (ii) only
 - 2. (ii) and (iii) only
 - 3. (iii) an (i) only
 - 4. (ii) only

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 101 Question Id : 3922661541 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statement is **TRUE**

- (i) Number of lines of symmetry of letter 'S' is 1
 - (ii) The figure kite has a line of Symmetry but no rotational symmetry
 - (iii) The order of rotational symmetry of a square is 2
- 1. (i) only
 - 2. (ii) only
 - 3. (i) and (iii) only
 - 4. (i), (ii) and (iii)

Options :

- 1. ✖ 1
- 2. ✔ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 102 Question Id : 3922661542 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Height and base diagonal of cuboid are 3cm and $2\sqrt{3}$ cm respectively. Then the length of diagonal of cuboid is

- 1. $9\sqrt{3}$ cm
- 2. $\sqrt{21}$ cm
- 3. $6\sqrt{3}$ cm
- 4. $1.5\sqrt{3}$ cm

Options :

- 1. ✖ 1
- 2. ✔ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 103 Question Id : 3922661543 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The length of the rectangle is increased by 25% and breadth is decreased by 25% then the percentage of change in the area

1. $6\frac{1}{2}\%$ decrease
2. $6\frac{1}{2}\%$ increase
3. $6\frac{1}{4}\%$ decrease
4. $6\frac{1}{4}\%$ increase

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 104 Question Id : 3922661544 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the statement which is **NOT TRUE**

1. The degree of biquadratic polynomial is 4
2. A binomial may have degree 4
3. The degree of zero polynomial is zero
4. $\frac{1}{3}\pi r^3 h$ is monomial

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 105 Question Id : 3922661545 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

$$P = axy + byz + czx$$

$$Q = 3xy + 5yz - 6zx \text{ and}$$

$$R = 2xy - 7yz + 16zx$$

If $P - Q = R$ then $a + b - c$ is

1. -7
2. -3
3. 17
4. -13

Options :

1. ☒ 1
2. ☐ 2
3. ☐ 3
4. ☐ 4

Question Number : 106 Question Id : 3922661546 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Jhansi has 3 times as many two rupees coins as she has five rupee coins. If she has in all a sum of ₹77, then the number of 2 rupee coins

1. 7
2. 14
3. 18
4. 21

Options :

1. ☐ 1
2. ☐ 2
3. ☐ 3
4. ☒ 4

Question Number : 107 Question Id : 3922661547 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If $\frac{2}{x} + \frac{3}{y} = 13$ and $\frac{5}{x} - \frac{4}{y} = -2$, then $2x + 3y =$

1. 1

2. 2

3. $\frac{1}{6}$

4. $\frac{5}{6}$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 108 Question Id : 3922661548 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The volume of a cuboid is $12ky^2 + 8ky - 20k$. Identify the expression which is **NOT** a possible dimension of that cuboid.

1. $4k$

2. $3y+5$

3. $y-1$

4. $k+2$

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 109 Question Id : 3922661549 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If a, b are any positive real numbers and

$$(a-b)\left[\frac{1}{\sqrt{a}+\sqrt{b}}+\frac{1}{\sqrt{a}-\sqrt{b}}\right]=\frac{2}{2-\sqrt{3}}, \text{ then } \sqrt{a}+\frac{1}{\sqrt{a}}=$$

1. 4
2. 7
3. $2+\sqrt{3}$
4. $4\sqrt{3}$

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 110 Question Id : 3922661550 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Match the following quadratic equations according to their nature of roots

- | | |
|--|--------------------------|
| A) $\frac{x^2}{2} + 3x + 6 = 0$ | (i) equal real roots |
| B) $2x^2 - \frac{2\sqrt{2}x}{3} + \frac{1}{9} = 0$ | (ii) distinct real roots |
| C) $\frac{x^2}{3} + 4x - 7 = 0$ | (iii) no real roots |

- | | A | B | C |
|----|-----|-----|-----|
| 1. | iii | ii | i |
| 2. | iii | i | ii |
| 3. | ii | iii | i |
| 4. | ii | i | iii |

Options :

- 1. ✖ 1
- 2. ✔ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 111 Question Id : 3922661551 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In an Arithmetic progression, the sum of 'n' terms is $2n^2 + n$ then the 9th term is

- 1. 171
- 2. 136
- 3. 70
- 4. 35

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✖ 3
- 4. ✔ 4

Question Number : 112 Question Id : 3922661552 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The number of ways of selecting 4 English, 3 Telugu and 2 Hindi books out of 7 English 6 Telugu and 5 Hindi books are

1. 3500
2. 4000
3. 7000
4. 9000

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 113 Question Id : 3922661553 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If $1, \omega, \omega^2$ are the cube roots of unity, then

$$(1 - \omega + \omega^2)^6 + (1 - \omega^2 + \omega)^6$$

1. 0
2. 64
3. 256
4. 128

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 114 Question Id : 3922661554 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The inverse matrix of $A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$

1. $\begin{bmatrix} 7 & -3 & -3 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix}$

2. $\begin{bmatrix} 7 & -1 & -1 \\ -3 & 1 & 0 \\ -3 & 0 & 1 \end{bmatrix}$

3. $\begin{bmatrix} 7 & 3 & 3 \\ 1 & -1 & 0 \\ 1 & 0 & -1 \end{bmatrix}$

4. $\begin{bmatrix} 7 & 1 & 1 \\ 3 & -1 & 0 \\ 3 & 0 & -1 \end{bmatrix}$

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 115 Question Id : 3922661555 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The mean of 6 observations is 11. If five observations are 10.7, 7.5, 9.3, 17.6 and 16.4, then sixth observation is

1. 5.5

2. 3.5

3. 4.5

4. 5.6

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 116 Question Id : 3922661556 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The median of 15 observations is 23. If the observations greater than the median are increased by 4, then the median of the new data will be

- 1. 23
- 2. 27
- 3. 38
- 4. 19

Options :

- 1. ✔ 1
- 2. ✖ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 117 Question Id : 3922661557 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements are **TRUE**?

- A) A bar graph is used to show comparison among categories
 - B) A pie chart is used to compare parts of a whole
 - C) A histogram is a bar graph that shows data in intervals
1. 'A' and 'B' only
 2. 'B' and 'C' only
 3. 'A' and 'C' only
 4. 'A' 'B' and 'C'

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 118 Question Id : 3922661558 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The mode of 2,5,3,x,2,7,3,4,5 and 4 is 3. Then value of $x^2 - 1$ is

1. 3
2. 9
3. 8
4. 4

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 119 Question Id : 3922661559 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A pie chart is drawn on four options A,B,C and D. selected by 100 students on a particular question. Options A,B,C and D are selected by 20,10,40 and 30 students respectively. Then which of the following is “FALSE”

1. Sector angle for option A is 72°
2. Sector angle for option C is 154°
3. Sector angle for option B is 36°
4. Sector angle for option D is 108°

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 120 Question Id : 3922661560 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT TRUE**

1. Mean Deviation about mean $= \frac{1}{N} \sum f_i |\bar{x} - x_i|$
2. Variance of a discrete frequency distribution is $\frac{1}{N} \sum f_i (x_i - \bar{x})^2$
3. Coefficient of Variation $\frac{\text{Standard Deviation}}{\text{Mean}}$
4. Range is the difference of highest observation and least observation

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Section 5

Section Id :	39226658
Section Number :	5
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	39226658
Question Shuffling Allowed :	Yes

Question Number : 121 Question Id : 3922661561 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

“The process and the improvement of mathematics are linked to the prosperity of the state” said by

1. Aristotle
2. Euclid
3. Napoleon
4. Pythagoras

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 122 Question Id : 3922661562 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The book written by Brahmagupta is

1. Siddhanta siromani
2. Bhadra ganitham
3. Pancha siddanthica
4. Khandakhadyaka

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 123 Question Id : 3922661563 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A objective that does not belong to the cognitive domain

1. Evaluation
2. Synthesis
3. Analysis
4. Imitation

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 124 Question Id : 3922661564 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The first Indian Mathematician who received 'Fellow of Trinity' award

1. Sakunthala Devi
2. Ramanujan
3. Hardy
4. Subrahmanyam Chandrasekhar

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 125 Question Id : 3922661565 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The mathematician who used the method 'KUTTAKAM'

1. Brahma Gupta
2. Aryabhatta
3. Varahamihira
4. Bhaskaracharya

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 126 Question Id : 3922661566 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The mathematician who introduced 'Transfinite Numbers'

1. Euclid
2. Pythagoras
3. Georg Cantor
4. Rene Descartes

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 127 Question Id : 3922661567 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Whose opinion is that the equation $Nx^2 + 1 = y^2$ is Bhaskara's equation?

1. Aryabhatta
2. Euclid
3. Ramanujan
4. Cantor

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 128 Question Id : 3922661568 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following belongs to the objective 'Understanding' of Cognitive Domain?

1. Recalling the information
2. Explaining ideas or concepts
3. Making judgements
4. Developing new concept

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 129 Question Id : 3922661569 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Name the mathematician who classified "Appreciation" as one of the values in mathematics

1. Young
2. Munnik
3. Schorling
4. Breslich

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 130 Question Id : 3922661570 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who wrote in his book “As some people enjoy listening to good music, I enjoy studying mathematics”?

1. Bhaskara Charya
2. Littlewood
3. G.H. Hardy
4. Kant

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 131 Question Id : 3922661571 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is not an integral part of the teaching plan

1. Curriculum
2. Annual plan
3. Lesson plan
4. Unit plan

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 132 Question Id : 3922661572 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who defined “Curriculum is all the activities sponsored by the school for the development of the students”?

1. Cunningham
2. Samuel
3. Ballard
4. Alberty

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 133 Question Id : 3922661573 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following does not belong to the character ‘Physical structure’ of qualities of a good textbook?

1. Textbook size
2. Printing
3. Presentation of the content
4. Cover page

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 134 Question Id : 3922661574 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who wrote the book 'The School Master's Assistant'?

1. Roger Ascham
2. Long
3. Woodworth
4. Dilworth

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 135 Question Id : 3922661575 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Match the Project definitions with the scientists who gave them

- | | |
|---|-----------------|
| A. Wholehearted activity proceeding in a natural environment | i. Ballard |
| B. Problematic act carried to completion in most natural settings | ii. Killpatrick |
| C. Bit of real life that has been imported into school | iii. Stevenson |

1. A – ii, B – i, C – iii
2. A – iii, B – ii, C – i
3. A – ii, B – iii, C – i
4. A – iii, B – i, C – ii

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 136 Question Id : 3922661576 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of these methods is called the practical form of the Inductive method?

1. Project Method
2. Laboratory Method
3. Heuristic Method
4. Play way Method

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 137 Question Id : 3922661577 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Problem solving methods

- | | |
|------------------------|------------------------|
| A. Re-statement method | B. Laboratory method |
| C. Analytic method | D. Method of Analogies |
| E. Diagrammatic method | |

1. A, B, D, E
2. A, C, D, E
3. A, B, C, D
4. B, C, D, E

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 138 Question Id : 3922661578 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A suitable method of teaching to prove the principle of compound interest based on simple interest principle

1. Analytic method
2. Synthetic method
3. Inductive method
4. Laboratory method

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 139 Question Id : 3922661579 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Assimilation, Recitation are the last two steps of which lesson planning model

1. Morrison model
2. Bloom's model
3. R.C.M model
4. Herbartian model

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 140 Question Id : 3922661580 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which is not related to year plan

1. There is a syllabus to be completed month wise.
2. Working days for evaluation to be considered.
3. Units can be selected depending on the period of availability of TLM
4. All aspects of the period plan will be covered.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 141 Question Id : 3922661581 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which is the aim of the step 'Generalisation' of Herbartian steps in lesson planning?

1. Introducing the lesson
2. Reinforcing the main concepts
3. Testing the understanding level of the students
4. Relating the subject matter to real life application

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 142 Question Id : 3922661582 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

“Mathematics is a compulsory for all physical researches”
stated by

1. Berth Lat
2. Brod Ford
3. Herbart
4. Ramanujan

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 143 Question Id : 3922661583 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which is the 4th experience from the bottom of the Edgar Dale
cone

1. Exhibits
2. Demonstrations
3. Field trips
4. Motion pictures

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 144 Question Id : 3922661584 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is a projective tool used in teaching?

1. Movie
2. Slide Projector
3. Television
4. Green Board

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 145 Question Id : 3922661585 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is the suitable teaching aid for teaching plane Geometry concepts?

1. Black Board
2. Peg Board
3. Geo Board
4. Chart

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 146 Question Id : 3922661586 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

What is the 10th item from the bottom of Edger Dale's cone of experience

1. Visual techniques
2. Verbal signs
3. Still images
4. Motion pictures

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 147 Question Id : 3922661587 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Factors mentioned by Brandiven to identify gifted students

- A. Genetic factors
 - B. Questioning level
 - C. Achievement level
 - D. Active responding trait
1. A, B, C
 2. B, C, D
 3. C, D, A
 4. A, B, D

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 148 Question Id : 3922661588 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

What is the IQ level of slow learners in mathematics according to Marry Potter and Virgil Mallory?

1. Greater than 90
2. Less than 90
3. Greater than 70
4. Less than 70

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 149 Question Id : 3922661589 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which ancient civilization is credited with the earliest known proof of the Pythagorean theorem, predating Pythagoras himself?

1. Egyptian
2. Chinese
3. Babylonian
4. Greeks

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 150 Question Id : 3922661590 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the item which is not included in unit plan

1. Teaching objectives
2. Teaching learning activities
3. Feedback
4. Evaluation

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 151 Question Id : 3922661591 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

It is not useful for improving accuracy in mathematical operations

1. Clarity, neatness
2. Verifying the results
3. Use of tools
4. Accuracy of mathematical statements

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 152 Question Id : 3922661592 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Maximum time limit of Drill work

1. 30 min
2. 20 min
3. 40 min
4. 15 min

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 153 Question Id : 3922661593 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

“It is useful to start a Mathematical club in every school” -
stated by

1. NPE - 1986
2. PoA - 1992
3. APSCF - 2011
4. SFG - 2011

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 154 Question Id : 3922661594 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In solving a problem on relationship of father's and son's age, Bhaskar framed an equation. Basing this identify the correct statements

- I. Understanding : The pupil identifies the relation between the ages of father and son
 - II. Application : The pupil establishes relationship between the ages of father and son
- 1. I is correct
 - 2. II is correct
 - 3. Both I and II are correct
 - 4. I is correct and II is incorrect

Options :

- 1. ✖ 1
- 2. ✔ 2
- 3. ✖ 3
- 4. ✖ 4

Question Number : 155 Question Id : 3922661595 Question Type : MCQ Option Shuffling : No Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Involving numbers, space, dimensions and practical ordering method is

- 1. Order
- 2. Structure
- 3. Sequence
- 4. Pattern

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✔ 3
- 4. ✖ 4

Question Number : 156 Question Id : 3922661596 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If an item of an achievement test divides the students of the class into intelligent, average and low intelligent, then the item has

1. Reliability
2. Validity
3. Discriminating power
4. Impartiality

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 157 Question Id : 3922661597 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The procedure which is laid down for classification of students and promoting them to higher classes is

1. Diagnostic Evaluation
2. Formative Evaluation
3. Summative Evaluation
4. Prognostic Evaluation

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 158 Question Id : 3922661598 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

When a test is administered on students multiple times, the students scored same marks. What is this characteristic called?

1. Validity
2. Objectivity
3. Reliability
4. Practicability

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 159 Question Id : 3922661599 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Arrange the steps of construction of an achievement test in an order

- A. Preparation of Blue Print
 - B. Allotment of Weightages
 - C. Preparation of Questions
 - D. Preparation of Scoring Key
1. B, A, C, D
 2. A, B, C, D
 3. C, D, A, B
 4. D, A, B, C

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 160 Question Id : 3922661600 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If a teacher changes his teaching strategy in the middle of the teaching, which of the following evaluation does help the teacher

1. Diagnostic Evaluation
2. Formative Evaluation
3. Summative Evaluation
4. Prognostic Evaluation

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4