

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 Physical Science 26th June 2025 Shift 2
Subject Name :	TGT NL Physical Science
Creation Date :	2025-06-26 19:48:07
Duration :	150
Total Marks :	80
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Show Reports :	No
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TGT NL Physical Science

Group Number :	1
Group Id :	392266120
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 :	392266625
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 :

392266695

Question Shuffling Allowed :

Yes

Question Number : 1 Question Id : 39226619841 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

‘Bhahubali’ statue at Sravanabelgola was built by

1. Bhadrabhahu
2. Kumarapala
3. Sthulabhadra
4. Chamundaraya

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 2 Question Id : 39226619842 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding government schemes and its objectives

- | | |
|-------------------|---|
| i. HRIDAY | a. Skill development trainings for minority youth |
| ii. MANAS | b. Financial support to small scale industries |
| iii. MUDRA | c. Eradication of diseases |
| iv. Indra Dhanush | d. Cultural heritage cities development |

- | | | | | |
|----|-----|------|-------|------|
| 1. | i-d | ii-b | iii-c | iv-a |
| 2. | i-d | ii-a | iii-b | iv-c |
| 3. | i-a | ii-b | iii-c | iv-d |
| 4. | i-c | ii-b | iii-a | iv-d |

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 3 Question Id : 39226619843 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding newspapers and founder

- | | |
|----------------------|-------------------------------|
| i. Andhra Patrika | a. Konda Venkatappayya |
| ii. Swaraj Patrika | b. Kasinathuni Nageswara Rao |
| iii. Krishna Patrika | c. Suravaram Pratapa Reddy |
| iv. Golkonda Patrika | d. Tanguturu Prakasam Pantulu |

- | | | | | |
|----|-----|------|-------|------|
| 1. | i-b | ii-a | iii-d | iv-c |
| 2. | i-c | ii-b | iii-a | iv-d |
| 3. | i-b | ii-d | iii-a | iv-c |
| 4. | i-a | ii-c | iii-d | iv-b |

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 4 Question Id : 39226619844 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the mismatched pair regarding scientist and invention

- | | | | |
|----|---------------|---|---------------------|
| 1. | Z. Janssen | - | Compound Microscope |
| 2. | W. Sturgeon | - | Electromagnet |
| 3. | Martin Cooper | - | Antisepsis |
| 4. | Walter Hunt | - | Safety pin |

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 5 Question Id : 39226619845 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Mismatched pair among the following regarding books and authors

1. The Judgement – Kuldeep Nayar
2. Hungry Stones – Nelson Mandela
3. Autobiography of an Unknown Indian – Nirad C. Chaudhuri
4. Strength to Love – Martin Luther King. Jr.

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 6 Question Id : 39226619846 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer from the following

- a. Government of Maharashtra renamed Pune airport as ‘Jagadguru Sant Tukaram Maharaj Pune International Airport’
 - b. Port Blair – The capital of Andaman and Nicobar Island renamed as ‘Sri Vijaya Puram’
- 1. a, b - Correct
 - 2. a, b - Incorrect
 - 3. a - only correct
 - 4. b – only correct

Options :

- 1. ✓ 1
- 2. ✗ 2
- 3. ✗ 3
- 4. ✗ 4

Question Number : 7 Question Id : 39226619847 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding Persons - Medals

- | | |
|---------------------|--|
| i. Srihari LR | a. India's 86 th Grandmaster |
| ii. Kanak Budhwar | b. ISSF Junior World Cup 2025
air pistol even gold medalist |
| iii. Deepika Kumari | c. Artistic Gymnastic World
Cup -2025 bronze medalist |
| iv. Pranathi Nayak | d. Archery World Cup – 2025
bronze medalist |

- | | | | | |
|----|-----|------|-------|------|
| 1. | i-a | ii-c | iii-b | iv-d |
| 2. | i-c | ii-b | iii-a | iv-d |
| 3. | i-a | ii-b | iii-d | iv-c |
| 4. | i-b | ii-d | iii-c | iv-a |

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 8 Question Id : 39226619848 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding Panchayat Raj Local Self-government

- a. 73 Constitutional amendment is related to Panchyat Raj institutions
 - b. Ashok Mehata Committee was appointed to study on Local Self Government
 - c. April – 24 observed as Panchyat Raj Day
 - d. Andhra Pradesh is the first state that establish Panchyat Raj institutions based on 73 amendment
- 1. a, b
 - 2. c, d
 - 3. a, d
 - 4. a, b, c

Options :

- 1. ✖ 1
- 2. ✖ 2
- 3. ✖ 3
- 4. ✔ 4

Question Number : 9 Question Id : 39226619849 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The vaccine that is given within 24 hours of child birth

1. Hepatitis B
2. BCG
3. OPV 1
4. JE 1

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 10 Question Id : 39226619850 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding days and its importance

- | | |
|----------------------------|------------------|
| i. National Girl Child Day | a. January - 24 |
| ii. World Book Day | b. October - 24 |
| iii. Constitutional Day | c. November - 26 |
| iv. UNO Day | d. April - 23 |

1. i-a ii-b iii-c iv-d
2. i-b ii-c iii-d iv-a
3. i-c ii-b iii-a iv-d
4. i-a ii-d iii-c iv-b

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 11 Question Id : 39226619851 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose the correct statement

1. During British rule, Phalodi was the Summer Capital
2. Indias coal capital is Gandhi Nagar
3. Karunadu is the another name of Karnataka
4. Lotus lakes city is Jaipur

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 12 Question Id : 39226619852 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The Nobel Prize winner - 2024 in the field of Literature is

1. David Baker
2. Victor Ambros
3. Daron Acemoglu
4. Han Kang

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 13 Question Id : 39226619853 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Choose correct statements

- a. Sashastra Seema Bal is border guarding force at Indo – Nepal, Indo-Bhutan borders.
 - b. Valour Day – is a tribute to saga of brave CRPF
 - c. Assam Rifles is the oldest central Para military force in India
 - d. ‘Agnipath’ scheme for youth to serve in the armed forces
- 1. a, b, c
 - 2. a, b, c, d
 - 3. b, c, d
 - 4. a, c, d

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 14 Question Id : 39226619854 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding Iron - steel factory and its location state

- | | |
|---------------------------------|-----------------|
| i. Durgapur Iron-Steel Factory | a. Jharkhand |
| ii. Rourkela Iron-Steel Factory | b. Odisha |
| iii. Bhilai Iron-Steel Factory | c. West Bengal |
| iv. Bokaro Iron-Steel Factory | d. Chhattisgarh |

- | | | | | |
|----|-----|------|-------|------|
| 1. | i-c | ii-d | iii-a | iv-b |
| 2. | i-c | ii-b | iii-d | iv-a |
| 3. | i-b | ii-c | iii-d | iv-a |
| 4. | i-d | ii-b | iii-a | iv-c |

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 15 Question Id : 39226619855 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer regarding instrument and musicians

- | | |
|---------------|---------------------------|
| i. Flute | a. Annavarapu Ramaswamy |
| ii. Mridangam | b. Pannalal Ghosh |
| iii. Veena | c. Yella Venkateswara Rao |
| iv. Violin | d. Eemani Sankara Sastri |

- | | | | | |
|----|-----|------|-------|------|
| 1. | i-b | ii-d | iii-a | iv-c |
| 2. | i-c | ii-a | iii-b | iv-d |
| 3. | i-a | ii-c | iii-d | iv-b |
| 4. | i-b | ii-c | iii-d | iv-a |

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 16 Question Id : 39226619856 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

2024 G-20 Summit : Rio de Janeiro : : COP 29 Summit :

1. Maracaibo - Venezuela
2. Baku - Azerbaijan
3. Manila - Philippines
4. Khartoum - Sudan

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 17 Question Id : 39226619857 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The runner up in the World Chess Championship - 2024

1. Nepomniachtchi
2. Fabiano caruana
3. Sergey Karjakin
4. Ding Liren

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 18 Question Id : 39226619858 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Name of the quantum computing chip for solving more complex mathematical problems, developed by Google is

1. Pillow
2. Willow
3. Twilt
4. Septilion

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 19 Question Id : 39226619859 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Mismatched pair among the following

1. Vitamin A - Pyridoxine
2. Vitamin C - Ascorbic Acid
3. Vitamin D - Calciferol
4. Vitamin K - Phylloquinone

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 20 Question Id : 39226619860 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Choose correct answer

- a. Purnima Devi Barman – Time magazine woman of the year – 2025 protecting endangered greater adjustment stork (Hargila)
- b. Kiran Rao – ‘Laapataa Ladies’ film directed by her and got 10 awards in International film festival

1. a - correct
2. b - correct
3. a, b - incorrect
4. a, b - correct

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Section 2

Section Id :	392266626
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 :	392266696
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 39226619861 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This statement given below is the best description on 'Human capital in education'.

1. Total number of students enrolled in schools.
2. The financial resources invested in education infrastructure.
3. The skills, knowledge, and abilities acquired through education that enhance productivity and economy.
4. The physical infrastructure of educational institutions.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 22 Question Id : 39226619862 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Over 85% of a child's cumulative brain development occurs prior to this age

1. 3 years
2. 6 years
3. 8 years
4. 12 years

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 23 Question Id : 39226619863 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

NEP 2020 proposed to give 'promotions' to teachers based on this

1. Seniority
2. Age
3. Qualification
4. Talent performance

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 24 Question Id : 39226619864 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

According to RTE – 2009, the number of teachers required in a primary school where the strength is in between 61 to 90 students is

1. 5 + 1
2. 4
3. 2
4. 3

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 25 Question Id : 39226619865 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is NOT a characteristic of a child friendly physical environment as envisioned by NCF - 2005

1. Access to natural light and ventilation.
2. Limited space for movement and activities.
3. Space should be provided for displaying children's work.
4. Provision for play and creative activities.

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 26 Question Id : 39226619866 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Total homework time recommended by NCF 2005 for middle school is

1. 10 to 12 hours a week
2. 5 to 6 hours a week
3. 1 to 2 hours a week
4. 2 hours a week

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 27 Question Id : 39226619867 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This Chapter of Right to Education Act – 2009 deals with the protection of child right

1. 2nd Chapter
2. 4th Chapter
3. 3rd Chapter
4. 6th Chapter

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 28 Question Id : 39226619868 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Truth, righteousness, honesty and peace are related to these values

1. Relative values
2. Instrumental values
3. Universal values
4. Objective values

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 29 Question Id : 39226619869 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

DIETs are established as per the recommendations of this education policy

1. NEP - 1968
2. Secondary Education Commission - 1952
3. NCF - 2005
4. NEP - 1986

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 30 Question Id : 39226619870 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This Committee recommended 'not to give any homework' to preprimary and primary stage students

1. Yashpal Committee
2. Janardhan Reddy Committee
3. Malcom Adisheshaiah Committee
4. Rama Murthy Committee

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Section 3

Section Id :	392266627
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 :	392266697
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 39226619871 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

As per Intelligence Quotient Scale, the ascending order of Mental retardness is

1. Idiot, Imbecile, Moron, Dullards
2. Imbecile, Idiot, Dullards, Moran
3. Moran, Imbecile, Dullards, Idiot
4. Dullards, Moran, Idiot, Imbecile

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 32 Question Id : 39226619872 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Match the following

- | | |
|---------------------|---------------------------------------|
| i. Thurston | a. Summated Rating Scale |
| ii. Guttman | b. Differential Aptitude Test Battery |
| iii. Likert | c. Equally Appearing Interval Scale |
| iv. George K Binnet | d. Cumulative Scale |

1. i-c ii-d iii-b iv-a
2. i-d ii-c iii-a iv-b
3. i-c ii-d iii-a iv-b
4. i-d ii-b iii-a iv-c

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 33 Question Id : 39226619873 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The process of formation of a strong bond between Motivation and Response is

1. Reasoning
2. Learning
3. Aptitude
4. Problem solving

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 34 Question Id : 39226619874 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Skewness and Kurtosis are the deviations of

1. Histogram
2. Arithmetic mean
3. Normal probability curve
4. Frequency curve

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 35 Question Id : 39226619875 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In 1884, Anthropometric Lab was established by

1. Hermann Ebbinghaus
2. Sir Francis Galton
3. Bagley
4. Charles Judd

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 36 Question Id : 39226619876 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The learning style NOT in the classification of Gild Guard

1. Intellectual Learners
2. Visual Learners
3. Auditory Learners
4. Bodily Kinesthetic Learners

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 37 Question Id : 39226619877 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A continuous process by which a person varies his behaviour to produce a more harmonious relationship between himself and his environment is

1. Intelligence
2. Creativity
3. Adjustment
4. Conflict

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 38 Question Id : 39226619878 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Author of the book 'Animal Intelligence; Experimental Studies'

1. John Dewey
2. Thorndike
3. Howard Gardiner
4. Bruner

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 39 Question Id : 39226619879 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

One of the following methods is NOT a method to improve memory

1. Attention, Association of ideas
2. Rehearsal, Multitasking
3. Reinforcement, Recitation
4. Motivation, use of mnemonics

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 40 Question Id : 39226619880 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A students who had learnt Boyle's law, found obstruction in learning Pascal's law. This may be due to

1. Proactive inhibition
2. Retroactive inhibition
3. Repression
4. Mental trauma

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Section 4

Section Id :	392266628
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 : 392266698
Question Shuffling Allowed : Yes

Question Number : 41 Question Id : 39226619881 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The comparison of unknown quantity with some known quantity is called

1. Measurement
2. Unit
3. Dimension
4. Unit and Dimension

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 42 Question Id : 39226619882 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

While measuring the length of an object, the reading at one end of the scale is 1.0 cm and at the other end it is 13.3 cm. The length of the object is

1. 13.3 cm
2. 1.0 cm
3. 14.3 cm
4. 12.3 cm

Options :

1. ✗ 1
2. ✗ 2
3. ✗ 3
4. ✓ 4

Question Number : 43 Question Id : 39226619883 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A physical quantity 'x' is given by $x = \frac{A^5 B^{\frac{1}{2}}}{C^{-6} D^{\frac{3}{2}}}$. The quantity which brings in maximum percentage error in 'x' is

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

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 44 Question Id : 39226619884 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Correct conversion formula among the following is

1. $1 \text{ kmph} = \frac{5}{18} \text{ ms}^{-1}$
2. $1 \text{ kmph} = \frac{18}{5} \text{ ms}^{-1}$
3. $1 \text{ kmph} = \frac{1}{1000} \text{ ms}^{-1}$
4. $1 \text{ kmph} = 1000 \text{ ms}^{-1}$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 45 Question Id : 39226619885 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A particle moving in a straight line covers half the distance with a speed of 3 ms^{-1} . The other half of the distance is covered in two equal time intervals with speeds of 4.5 ms^{-1} and 7.5 ms^{-1} respectively. The average speed of the particle during this motion is

1. 4 ms^{-1}
2. 5 ms^{-1}
3. 5.5 ms^{-1}
4. 4.5 ms^{-1}

Options :

1. ☒ 1
2. ☐ 2
3. ☐ 3
4. ☐ 4

Question Number : 46 Question Id : 39226619886 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A particle starts moving from the position of rest under constant acceleration. If it covers a distance ' x ' in ' t ' seconds, the distance it will travel in the next ' t ' second is

1. x
2. $2x$
3. $3x$
4. $4x$

Options :

1. ☐ 1
2. ☐ 2
3. ☒ 3
4. ☐ 4

Question Number : 47 Question Id : 39226619887 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The statement that is correct regarding velocity - time graph under uniform accelerated motion is

1. Slope of v-t graph gives acceleration
2. Slope of v-t graph gives displacement
3. Area of v-t graph gives acceleration
4. Area of v-t graph gives force

Options :

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

Question Number : 48 Question Id : 39226619888 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

An example for contact force is

1. Gravitational force
2. Electrostatic force
3. Magnetic force
4. Frictional force

Options :

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

Question Number : 49 Question Id : 39226619889 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Fluid friction does not depends on

1. Colour of an object
2. Speed of an object with respect to fluid
3. Shape of an object
4. Nature of a fluid

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 50 Question Id : 39226619890 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

S.I units of force is

1. $kg^{-2}ms$
2. $kgms^{-2}$
3. $kgm^{-2}s$
4. $kgms$

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 51 Question Id : 39226619891 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Action - reaction forces

1. Acts on different bodies
2. Act along different lines
3. Acts on the same body
4. Acts in the same direction

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 52 Question Id : 39226619892 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Consider a heavenly body that has a mass half of the Earth and radius double that of the Earth. The acceleration due to gravity at the surface of the heavenly body is (acceleration due to gravity on earth is 'g')

1. $\frac{g}{4}$
2. $\frac{g}{8}$
3. $4g$
4. $8g$

Options :

1. ✗ 1

2. ✗ 2

3. ✗ 3

4. ✓ 4

Question Number : 53 Question Id : 39226619893 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A body of mass 1.6 kg and density of 8000 Kg m^{-3} is completely immersed in a liquid of density 1000 Kg m^{-3} . The force of buoyancy on it is (*take $g = 10 \text{ ms}^{-2}$*)

1. 16 N
2. 0.16 N
3. 2 N
4. 12.8 N

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 54 Question Id : 39226619894 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If 'g' is the acceleration due to gravity on the Earth's surface, then the gain in potential energy of an object of mass 'm' raised from surface of the Earth to a height of the radius R of the Earth is

1. $\frac{1}{2}mgR$
2. $\frac{1}{2}mg(2R)$
3. $2mgR$
4. $2mg(2R)$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 55 Question Id : 39226619895 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A girl of mass 50kg runs up a staircase of 20 steps in 10s. If the height of each step is 15cm. Her power is

(take $g = 10ms^{-2}$)

1. 15 W
2. 1.5 KW
3. 150 W
4. 0.15 KW

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 56 Question Id : 39226619896 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A 5kg body is sliding upon inclined plane of inclination 30° . The work done by the force of gravity in moving the body through 4m is

1. $-98\sqrt{3} J$
2. $-98 J$
3. $98 J$
4. $98\sqrt{3} J$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 57 Question Id : 39226619897 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Negative of work done by conservative forces is called

1. Potential energy
2. Kinetic energy
3. Total energy
4. Conservation of energy

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 58 Question Id : 39226619898 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The INCORRECT combination among the following is

1. Frequency - Hertz (Hz)
2. Speed of sound - $\frac{\text{Metre}}{\text{Second}} (ms^{-1})$
3. Time period - $\frac{1}{\text{Second}} (s^{-1})$
4. Loudness - decibel (dB)

Options :

1. ✗ 1

2. ✗ 2

3. ✓ 3

4. ✗ 4

Question Number : 59 Question Id : 39226619899 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Ultrasounds have advantage over ordinary sound to use in industry and medical purposes, as they have

1. Low frequency and shorter wavelength
2. High frequency and shorter wavelength
3. Low frequency and longer wavelength
4. High frequency and longer wavelength

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 60 Question Id : 39226619900 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the frequency of source is 10KHz then the frequencies of sound waves produced in water and air will

1. Depends on the density of the media
2. Depends upon the velocity of waves in these media
3. Depends upon the wave length of the waves in these media
4. Be the same as that of the source

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 61 Question Id : 39226619901 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Moment of inertia of a disc about its own axis is I . It's moment of inertia about a tangential axis in its plane is

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 62 Question Id : 39226619902 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

An object A at 27°C and B at 27K are kept in contact then

1. Heat flows from A to B
2. Heat flows from B to A
3. Heat doesn't flow
4. Heat flows from A to B and Vice-versa

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 63 Question Id : 39226619903 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Land and sea breeze is an example of

1. Conduction
2. Convection
3. Radiation
4. Evaporation

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 64 Question Id : 39226619904 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

2 kg of ice at -20°C is mixed with 5kg of water at 20°C . Assuming negligible heat loss, the mass of water that remains in the container is

(Specific heat of water and ice are $1 \text{ cal g}^{-1}^{\circ}\text{C}^{-1}$ and $0.5 \text{ cal g}^{-1}^{\circ}\text{C}^{-1}$ respectively, latent heat of ice is 80 cal g^{-1})

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

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 65 Question Id : 39226619905 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Pinhole camera acts as a

1. Concave lens
2. Convex mirror
3. Concave mirror
4. Convex lens

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 66 Question Id : 39226619906 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Image formed by a plane mirror is

1. Virtual and erect
2. Real and erect
3. Virtual and inverted
4. Real and inverted

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 67 Question Id : 39226619907 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A thin lens and a spherical mirror have a focal length of positive value, then

1. Both are concave
2. Both are convex
3. Lens is convex, mirror is concave
4. Lens is concave, mirror is convex

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 68 Question Id : 39226619908 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The wavelength corresponding to blue, green and red lights are λ_B , λ_G and λ_R respectively. Then the correct order of wavelength among the following is

1. $\lambda_R > \lambda_G > \lambda_B$
2. $\lambda_B = \lambda_G > \lambda_R$
3. $\lambda_G = \lambda_B < \lambda_R$
4. $\lambda_B > \lambda_G > \lambda_R$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 69 Question Id : 39226619909 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The intensity coming out of a single polaroid is controlled from 100% to 25% by putting a second polaroid at any angle of

1. 30°
2. 45°
3. 60°
4. 90°

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 70 Question Id : 39226619910 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The longer line in the symbol for a cell represents its

1. Negative terminal
2. Positive terminal
3. Positive or negative terminal
4. Neutral terminal

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 71 Question Id : 39226619911 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The ratio of specific heats (γ) value for diatomic (rigid) gases is

1. $\frac{9}{7}$
2. $\frac{5}{3}$
3. $\frac{4}{3}$
4. $\frac{7}{5}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 72 Question Id : 39226619912 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Most liquids that conduct electricity are

1. Solutions of acids only
2. Solutions of bases only
3. Solutions of salts only
4. Solutions of acids, bases and salts

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 73 Question Id : 39226619913 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The incorrect formula for the energy stored in a capacitor is

1. $\frac{1}{2}CV^2$
2. $\frac{1}{2}QC^2$
3. $\frac{1}{2}Q^2/C$
4. $\frac{1}{2}QV$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 74 Question Id : 39226619914 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A 2V cell is connected to a 1Ω resistor. Number of electrons coming out of the negative terminal of the cell in 80 seconds is

1. 5×10^{20}
2. 10^{-17}
3. 0.5×10^{-20}
4. 10^{21}

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 75 Question Id : 39226619915 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

An observer is moving away from source of sound of frequency 110Hz. His speed is 33 m/s. If the speed of sound is 330 m/s, then the observed frequency is

1. 121 Hz
2. 100 Hz
3. 99 Hz
4. 90 Hz

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 76 Question Id : 39226619916 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The energy consumed in KWH by a 60W fan in 10 hours is

1. 0.6
2. 6
3. 60
4. 600

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 77 Question Id : 39226619917 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The magnetic field lines inside a long current carrying solenoid are nearly

1. Elliptical
2. Straight
3. Circular
4. Parabolic

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 78 Question Id : 39226619918 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A commutator changes the direction of current in the coil of an/a

1. AC generator
2. AC motor
3. AC motor and AC generator
4. DC motor

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 79 Question Id : 39226619919 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If heat is supplied to an ideal gas in an isothermal process then the

1. Internal energy of the gas will increase
2. Gas will do negative work
3. Gas will do positive work
4. Said process is not possible

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 80 Question Id : 39226619920 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Mathematical formula to calculate motional emf is

1. $l(\vec{V} \times \vec{B})$
2. $i(\vec{l} \times \vec{B})$
3. $i(\vec{A} \times \vec{B})$
4. $q(\vec{V} \times \vec{B})$

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 81 Question Id : 39226619921 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The final product in the substitution reaction of methane with chlorine is

1. Methylene chloride
2. Methyl chloride
3. Carbon tetra chloride
4. Trichloro methane

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 82 Question Id : 39226619922 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The correct statement from the following is

1. Roasting is carried out in blast furnace
2. Smelting is carried out in reverberatory furnace
3. Forth floatation is suitable to separate gangue from sulphide ore
4. Calcination is carried out in blast furnace

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 83 Question Id : 39226619923 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Neils Bohr : _____ : : Lande : Orbitals

1. Nucleus
2. Stationary orbits
3. Elliptical orbits
4. Electron spin

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 84 Question Id : 39226619924 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The first electron affinity (EA_1) of Oxygen atom is -141 KJ/ mole. The first EA_2 of that atom is

1. -141 KJ/mole
2. $+141$ KJ/mole
3. 0
4. Infinity

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 85 Question Id : 39226619925 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Elements whose electronegativity values are 1.2 and 3.2. Bond formed between them would be

1. Ionic bond
2. Covalent bond
3. Co-ordinate covalent bond
4. Metallic bond

Options :

1. ✓ 1

2. ✗ 2

3. ✗ 3

4. ✗ 4

Question Number : 86 Question Id : 39226619926 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The material that cannot be obtained from coal is

1. Coke
2. Coal Tar
3. CNG
4. Coal gas

Options :

1. ✗ 1

2. ✗ 2

3. ✓ 3

4. ✗ 4

Question Number : 87 Question Id : 39226619927 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

‘Mischmetall’ alloy consists of

1. Cerium 95% - Cobalt 5%
2. Neodymium 95% - Iron 5%
3. Lutetium 95% - Copper 5%
4. Lanthanoid metal 95% - Iron 5%

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 88 Question Id : 39226619928 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The incorrect statement about non-metals

1. One of the non-metals is used in water purification process
2. One of the non-metals is used in antiseptic solution
3. Few of the non-metals are used in fertilizers
4. All the non-metals are sonorous

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 89 Question Id : 39226619929 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The substance with least ignition temperature is

1. Charcoal
2. Cooking oil
3. Diesel
4. Paraffin wax

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 90 Question Id : 39226619930 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the H^+ ion concentration of a sample is 10^{-3} moles. lit^{-1} , then the OH^- ion concentration would be

1. 10^{-14} moles. lit^{-1}
2. 10^{-11} moles. lit^{-1}
3. 10^3 moles. lit^{-1}
4. 10^{-10} moles. lit^{-1}

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 91 Question Id : 39226619931 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Rusting of metals is an example of

1. Oxidation of metals
2. Reduction of metals
3. Redox reaction
4. Physical change

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 92 Question Id : 39226619932 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The colourless, odourless and combustible gas, which evolved in the reaction between metal and acid is

1. Hydrogen Sulphide
2. Nitrogen
3. Hydrogen
4. Oxygen

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 93 Question Id : 39226619933 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The least dense among all the planets in our solar system is

1. Earth
2. Venus
3. Saturn
4. Jupiter

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 94 Question Id : 39226619934 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Assertion A: Most of earthquakes are caused by the movements of Earth plates.

Reason R: The collision of the Earth plates disturbs the Earth crust

1. Both A & R correct and 'R' is the correct explanation of 'A'
2. Both A & R correct but 'R' is not the correct explanation of 'A'
3. 'A' is correct but R is incorrect
4. 'A' is incorrect but 'R' is correct

Options :

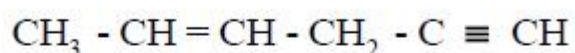
1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 95 Question Id : 39226619935 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The IUPAC name of the structure



1. Hex - 4 - en - 1 - yne
2. Hex - 1 - en - 4 - yne
3. 2, 4 - Hexenyne
4. 4, 2 - Hexenyne

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 96 Question Id : 39226619936 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The wrong combination from the following is

1. Burning of coal - chemical change
2. Curd from milk - physical change
3. Burning of Magnesium - chemical change
4. Formation of salt crystals - physical change

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 97 Question Id : 39226619937 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The technique used to separate the colloidal particles is

1. Filtration
2. Decantation
3. Centrifugation
4. Crystallization

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 98 Question Id : 39226619938 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Atomic mass of Hydrogen, Nitrogen and Oxygen are 1, 14 and 16 respectively. The molecular mass of nitric acid would be

1. 18 units
2. 36 units
3. 31 units
4. 63 units

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 99 Question Id : 39226619939 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is not a property of air

1. It occupies space
2. It is transparent
3. It is a solution
4. It is a compound

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 100 Question Id : 39226619940 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Incorrect statement from the following

1. Helium has the highest ionization energy in the periodic table
2. Every period starts with alkali metal and ends with noble gas
3. Cesium has the highest Electronegativity value in the periodic table
4. d - block elements are transition elements

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 101 Question Id : 39226619941 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The atom of an element 'A' form a chloride ACl_4 . Then the number of valence electrons in 'A' is

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

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 102 Question Id : 39226619942 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The incorrect statement about Rayon is

1. It is a natural fibre
2. It is cheaper than silk
3. It is treated with chemicals
4. It is alternate to silk

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 103 Question Id : 39226619943 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The correct sequence of the following sentences is

- P. Drop a piece of aluminum foil into it.
- Q. Prepare a fresh solution of Sodium hydroxide.
- R. Bring a burning matchstick near the mouth of a test tube.
- S. Take 5 ml of Sodium hydroxide solution in a test tube.
1. QPRS
 2. SQPR
 3. QSRP
 4. QSPR

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 104 Question Id : 39226619944 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Assertion A: Compost is to be added to soil with basic nature

Reason R: Compost releases acids

1. Both A & R correct and 'R' is the correct explanation of 'A'
2. Both A & R incorrect
3. Both A & R correct but 'R' is not correct explanation of 'A'
4. 'A' is correct but 'R' is incorrect

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 105 Question Id : 39226619945 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The suffix of functional group 'Ester' is

1. -oxy carbonyl
2. -oate
3. -alkoxy
4. -al

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 106 Question Id : 39226619946 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

According to Pauli's exclusion principle, no two electrons in an atom can

1. Interact with each other
2. Be present in the same orbital
3. have same set of four quantum numbers
4. have different spins.

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 107 Question Id : 39226619947 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The elements in which electrons are progressively filled in 4f - orbitals are

1. Actinoids
2. Transition elements
3. Lanthanoids
4. Chalcogens

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 108 Question Id : 39226619948 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In acid - base neutralization reaction, the products are

1. Salt, Water and Heat
2. Salt and Water
3. Salt, Water and light
4. Salt, Water and CO₂

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 109 Question Id : 39226619949 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The process of removing an adsorbed substance from a surface on which it is adsorbed is

1. Absorption
2. Desorption
3. Adsorption
4. Chemisorption

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 110 Question Id : 39226619950 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The hybridization on the central atom of the molecule Beryllium chloride is

1. SP - hybridization
2. SP^2 - hybridization
3. SP^3 - hybridization
4. No hybrid orbitals on the central atom

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 111 Question Id : 39226619951 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Elements of the following groups of the periodic table do not form hydrides

1. Group - 7, 8 and 9
2. Group - 13
3. Group – 15, 16 and 17
4. Group - 14

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 112 Question Id : 39226619952 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

B.O.D is a measure of organic material present in water. The B.O.D value less than 5 ppm indicates

1. The water to be rich in dissolved oxygen
2. The water to be poor in dissolved oxygen
3. The water highly polluted
4. The water not suitable for aquatic life

Options :

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

Question Number : 113 Question Id : 39226619953 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The base which is not present in RNA is

1. Adenine
2. Uracil
3. Cytosine
4. Thymine

Options :

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

Question Number : 114 Question Id : 39226619954 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This is NOT target molecule for drug function in our body

1. Carbohydrates
2. Vitamins
3. Proteins
4. Lipids

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 115 Question Id : 39226619955 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Assertion (A): For making rubber synthetically,
isoprene molecules are polymerized

Reason (R): Neoprene is a synthetic rubber

1. Both A & R are correct and 'R' is correct explanation of 'A'
2. Both A & R are correct and 'R' is not correct explanation of 'A'
3. 'A' is incorrect but 'R' is correct
4. 'A' is correct but 'R' is incorrect

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 116 Question Id : 39226619956 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The enthalpies of elements in their standard states are taken as zero. The enthalpy of formation of compound

1. Is always positive
2. Is always negative
3. May be positive or negative
4. Is never negative

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 117 Question Id : 39226619957 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In gaseous equilibrium, $\text{H}_2 + \text{X}_2 \rightleftharpoons 2\text{HX}$. The formation of HX will be favoured by

1. High pressure and low temperature
2. Low temperature and low pressure
3. High temperature and low pressure
4. High temperature and high pressure

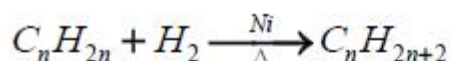
Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 118 Question Id : 39226619958 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0



The above reaction is known as

1. Cannizaro reaction
2. Friedel craft reaction
3. Kolbe's reaction
4. Sabatier and Sanderen's reaction

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 119 Question Id : 39226619959 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is NOT a characteristic property of carbon

1. Catenation
2. Formation of multiple bonds
3. Availability of d - orbitals for bonding
4. Highest electro negativity in its group

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 120 Question Id : 39226619960 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The most water soluble hydroxide of alkaline earth metals

1. $Be(OH)_2$
2. $Ba(OH)_2$
3. $Mg(OH)_2$
4. $Ca(OH)_2$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Section 5

Section Id :	392266629
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 :	392266699
Question Shuffling Allowed :	Yes

Question Number : 121 Question Id : 39226619961 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

“Perfect as the wing of a bird may be, it will never enable the bird to fly if unsupported by the air. Facts are the air of Science”. This statement is said by

1. Arrhenius
2. Karl Pearson
3. James B. Conant
4. Ivan Pavlov

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 122 Question Id : 39226619962 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Among the given, basic assumptions of Science, one is NOT a fact. Trace it.

1. Science is organized common sense
2. Knowledge of science is cumulative and ever growing
3. In Science, we come across experiments and observations etc...
4. Science knowledge is limited to books, but not useful in actual life

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 123 Question Id : 39226619963 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

‘The only constant in science is change’ - It shows this nature of Science

1. Tentativeness
2. Objectivity
3. Verifiability
4. Predictability

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 124 Question Id : 39226619964 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

While teaching topics of Physics like vector and scalar quantities, laws of refraction, critical angle etc., science teacher needs to take help from a

1. Language teacher
2. Mathematics teacher
3. Social studies teacher
4. Biological Science teacher

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 125 Question Id : 39226619965 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The Committee that recommended Science as a core subject upto 10 years of School education is

1. A.L. Mudaliar committee (52-53)
2. D.S. Kothari committee (64-66)
3. National Educational Policy (1986)
4. Eswar Bhai Patel Committee (1973)

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 126 Question Id : 39226619966 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Identification of diseases related to skin and kidneys and their treatment were discussed in this ancient Indian book.

1. Rasa Ratnakaram
2. Sushruta Samhita
3. Charak samhitha
4. Narada Samhitha

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 127 Question Id : 39226619967 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A student identified errors in an electrical circuit of Ohm's Law. This specification belongs to this objective

1. Skill
2. Understanding
3. Application
4. Knowledge

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 128 Question Id : 39226619968 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Scientist who named as 'Missile man of India' is

1. Sir C.V. Raman
2. S. Chandrasekhar
3. A.P.J. Abdul Kalam
4. Vikram Sara Bai

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 129 Question Id : 39226619969 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

‘Teaching of science need to develop unbiased nature, integrity, able to question, respect for human, dignity which are related to scientific attitude and scientific temper’ is important objective of teaching science. this is at this level

1. Elementary level
2. Secondary level
3. Upper Primary level
4. Collegiate level

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 130 Question Id : 39226619970 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A student using her cognitive abilities and recognizes Na_2CO_3 , identified elements, oxidation states, atomic weight, molecular weight etc., here achieved education objective is

1. Knowledge - Recognise
2. Understanding - commenting
3. Application - Analysis
4. Evaluation as per works done, giving judgment

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 131 Question Id : 39226619971 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Teaching of science, where different committees like, Planning committee, Finance committee, Disciplinary committee, purchasing committee etc., discharge their duties to learn a subject. This method of teaching is

1. Lecture Demonstration method
2. Heuristic method
3. Project method
4. Scientific method

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 132 Question Id : 39226619972 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

To explain batteries and electric circuits a teacher connected batteries in series and parallel system. The most suitable method to teach it is

1. Inductive method
2. Lecture method
3. Lecture demonstration method
4. Project method

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 133 Question Id : 39226619973 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Educationist to develop Team teaching technique is

1. Lloyd Trump
2. B.F. Skinner
3. D.S. Kothari
4. J.S. Bruner

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 134 Question Id : 39226619974 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The institution of India made research on Micro teaching is

1. NCERT, Delhi
2. R.I.E. Mysore
3. Centre for Advanced Studies in Education, Baroda
4. University of Calcutta

Options :

1. ✗ 1
2. ✗ 2
3. ✓ 3
4. ✗ 4

Question Number : 135 Question Id : 39226619975 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A teacher teaches a lesson more effectively by using computer and other audio, video aids this teaching is called

1. Programmed learning
2. Team teaching
3. Multi Media approach
4. Individual teaching

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 136 Question Id : 39226619976 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This is a direct purposeful experience

1. Student listening the lesson of the experiment in the Laboratory
2. Student reading the text book about experiment
3. Student individually carrying out experiment in the Laboratory
4. Student heard about the experiment when another student told.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 137 Question Id : 39226619977 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

This is NOT an important objective of Science clubs in High schools

1. To bring out the innate abilities, interests and talents
2. To learn Science in a friendly atmosphere
3. Student uses their creativity, interest, and make observation of their own experiments
4. Encouraging students to memorize scientific formulae

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 138 Question Id : 39226619978 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

“A unit consists of interrelated meaningful activities to attain the educational objectives with learning experiences that bring expected behavioural changes”, is defined by

1. Bossing
2. L. B. Stands
3. Preston
4. J. K. Sood

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 139 Question Id : 39226619979 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The experience that students derive with their Five senses are called as

1. Vicarious experiences
2. Indirect experiences
3. Direct experiences
4. Constructive experiences

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 140 Question Id : 39226619980 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The method of organisation of topics in a curriculum where distinct topics are structured, keeping in mind the easy to difficult and simple to complex, standards of the pupils and subject difficulty is

1. Psychological method
2. Logical order method
3. Topical approach
4. Concentric approach

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 141 Question Id : 39226619981 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The walls of a laboratory in a school should have a thickness of

1. 1 foot
2. $1\frac{1}{4}$ feet
3. $1\frac{1}{2}$ feet
4. $1\frac{3}{4}$ feet

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 142 Question Id : 39226619982 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In this register, students should sign while taking apparatus from a laboratory

1. Indent register
2. Stock register
3. Issue register
4. Requirement register

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 143 Question Id : 39226619983 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

During lab work, mercury got mixed with other chemicals. It can be separated by using

1. Chamois leather
2. Small holed plastic seize
3. Filter paper
4. Thick cloth funnel

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 144 Question Id : 39226619984 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Universal antidote contains activated Charcoal, Magnesium oxide, Tannic acid in the ratio of

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

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 145 Question Id : 39226619985 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The details about the preparation of improvised apparatus models and equipment are in

1. SCERT - Sourcebook for Science teaching
2. UNICEF - Sourcebook for Science teaching
3. NCERT - Sourcebook for Science teaching
4. UNESCO - Sourcebook for Science Teaching

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 146 Question Id : 39226619986 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The chairman of District level Science Fair is

1. District Educational Officer
2. District Collector
3. Municipal Chairman
4. District Deputy Collector

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 147 Question Id : 39226619987 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The number of apparatus supplied by the government through Operation Black Board scheme (OBB) is

1. 30
2. 35
3. 40
4. 45

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 148 Question Id : 39226619988 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In India, an NGO, Eklavya Teaching Science Project was started at

1. Pudukkotai, Madras
2. Tiruchirappalli, Kerala
3. Kadapa, Andhra Pradesh
4. Hoshangabad, Madhya Pradesh

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 149 Question Id : 39226619989 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The year in which Atomic Energy Establishment, Trombay was (AEET) renamed as Bhabha Atomic Research Centre (BARC) is

1. 1967, Jan 22
2. 1977, Feb 23
3. 1987, March 2
4. 1997, April 25

Options :

1. ✓ 1
2. ✗ 2
3. ✗ 3
4. ✗ 4

Question Number : 150 Question Id : 39226619990 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Model of sequential learning proposed by

1. Bruner
2. Gagne
3. Aristotle
4. Wertheimer

Options :

1. ✗ 1
2. ✓ 2
3. ✗ 3
4. ✗ 4

Question Number : 151 Question Id : 39226619991 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

H.E. Armstrong used his 'Heuristic Method' for teaching this subject

1. Mathematics
2. Social Studies
3. Chemistry
4. Physics

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 152 Question Id : 39226619992 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

According to Jean Piaget, these age group children can understand the concept of "light-year"

1. Sensory motor stage
2. Pre-operational stage
3. Concrete operational stage
4. Formal operational stage

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 153 Question Id : 39226619993 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Number of steps in Interpretation construction model proposed by Black, McClintock are

1. 5
2. 6
3. 8
4. 7

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 154 Question Id : 39226619994 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The first attempt of Computer Aided Instruction (CAI) was done in

1. 1960, Illinois University
2. 1972, Ohio University
3. 1960, Stanford University
4. 1965, New York University

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 155 Question Id : 39226619995 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A big ship floats on water, but a small iron nail sinks in water. Student gives the reasons for these observations. His ability belongs to this objective

1. Knowledge
2. Application
3. Skill
4. Analysis

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 156 Question Id : 39226619996 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Among the given methods of teaching, students either as an individual or as group, with the help of teacher, find solution beyond the school campus if necessary method is

1. Historical method
2. Lecture Demonstration method
3. Project method
4. Heuristic method

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 157 Question Id : 39226619997 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Among the given boards, it is used to display news of science as paper cuttings

1. Flannel board
2. Black board
3. Bulletin board
4. Magnetic board

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 158 Question Id : 39226619998 Question Type : MCQ Option Shuffling : No
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The children's magazine, 'Magic-Magic' is published by this NGO

1. Konaseema Science Parishad
2. Jana Vignana Vedika
3. Ekalavya Sastra Sahitya Parishad
4. Delhi Science Forum

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 159 Question Id : 39226619999 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Mind mapping can be done in

1. Last period of the lesson
2. All periods
3. First period of the lesson
4. Evaluation period

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 160 Question Id : 39226620000 Question Type : MCQ Option Shuffling : No

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Formula for finding the value of the median for categorical data is

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

2. $L + \left[\frac{\frac{N}{2} - m}{f} \right] \times C$

3. $\frac{\sum x}{N}$

4. $\frac{Q_3 - Q_1}{2}$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4