Telangana State Commissioner and Director of School Education

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 :	School Assistant Physical Science English 31st July 2024 Shift 1
Subject Name :	School Assistant Physical Science English
Duration :	150
Total Marks :	80
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

School Assistant Physical Science

Group Number :	1
Group Id :	715053111
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	80

GK and Current Affairs

Section Id :	715053612
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 :	715053769
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 71505317328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Arrange the following planets in the ascending order based on their size

A) Earth

B) Jupiter

C) Mercury

D) Saturn

E) Uranus

Choose the correct answer:

Options :

1. ✖ A, B, C, D, E

2. ✔ C, A, E, D, B

3. ✖ A, C, D, E, B

4. ✖ C, A, B, E, D

Question Number : 2 Question Id : 71505317329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The Article that provided for equality of opportunity in the matters of public employment

Options :

1. ✖ 17

2. ✖ 18

3. ✔ 16

4. ✖ 15

Question Number : 3 Question Id : 71505317330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The Union Minister for Defence among the following immediately after General Elections, 2024

Options :

1. ✖ Shri Nithin Jayaram Gadkari

2. ✔ Shri Rajnath Singh

3. ✖ Dr Subrahmanyam Jaishankar

4. ✖ Shri Manoharlal

Question Number : 4 Question Id : 71505317331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The branch of agriculture that deals with study of plants used as vegetables

Options :

1. ✖ Viticulture

2. ✖ Silviculture

3. ✔ Olericulture

4. ✖ Apiculture

Question Number : 5 Question Id : 71505317332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The 2026 Winter Olympics are scheduled to be held in this country

Options :

1. ✖ France

2. ✔ Italy

3. ✖ Switzerland

4. ✖ Belgium

Question Number : 6 Question Id : 71505317333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The Tennis Grand Slam Tournament that is also called as 'Ronald Garros'

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

Options :

1. US Open

2. French Open

3. Australian Open

4. Wimbledon

Question Number : 7 Question Id : 71505317334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The state that was placed on top in the National Games of India held in the year 2022

Options :

1. ✔ Maharashtra

2. ✖ Gujarat

3. ✖ Karnataka

4. ✖ Uttar Pradesh

Question Number : 8 Question Id : 71505317335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

One among the following is **NOT** among the three Indian literary works inscribed in the 'UNESCO 2024 Memory of the World for Asia and Pacific Register'

Options :

1. ✔ Bhagavatham

2. ✖

Ramcharitmanas

3. ✖ Panchatantra

4. ✖ Sahrdayāloka–Locana

Question Number : 9 Question Id : 71505317336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Among the following, three are inter-governmental organizations and one is non-governmental organisation. Identify the non – governmental organisation

Options :

1. ✖ World Trade Organisation

2. ✖ International Monetary Fund

3. ✖ Organisation for Economic Cooperation and Development

4. ✔ World Economic Forum

Question Number : 10 Question Id : 71505317337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

To promote scientific curiosity and innovation among India's youth, a web portal named 'Apna Chandrayaan' was developed and unveiled in October, 2023 by

Options :

1. ✖ AICTE

2. ✖ IISC

3. ✖ IIT, Chennai

4. ✔ NCERT

Question Number : 11 Question Id : 71505317338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

FM radio Broadcasting first started in this city in 1977

Options :

1. ✖ Bombay

2. ✖ Calcutta

3. ✔ Madras

4. ✖ Delhi

Question Number : 12 Question Id : 71505317339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The god housed in Pushkar in Rajasthan

Options :

1. ✔ Brahma

2. ✖ Vishnu

3. ✖ Shiva

4. ✖

Indra

Question Number : 13 Question Id : 71505317340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

'Bathik', the technique of dyeing clothes has originated in this country

Options :

1. ✖ Sri Lanka

2. ✔ Indonesia

3. ✖ Malaysia

4. ✖ Myanmaar

Question Number : 14 Question Id : 71505317341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The flower banned for offering in the temples by the two Kerala government-controlled temple boards in May, 2024

Options :

1. ✖ Jasmine

2. ✖ Chrysanthemum

3. ✖ Orchids

4. ✔ Oleander

Question Number : 15 Question Id : 71505317342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Bureau of Indian Standards is Headquartered at

Options :

1. ✖ Mumbai

2. ✔ New Delhi

3. ✖ Chennai

4. ✖ Kolkata

Question Number : 16 Question Id : 71505317343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In–vitro fertilization technique was invented by

Options :

1. ✖ John Robert Vane and Sune Bergström

2. ✖ Adolf Gaston Eugen Fick

3. ✖ Charles Gerhardt

4. ✔ Robert Edwards and Patrick Steptoe

Question Number : 17 Question Id : 71505317344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The Army Chief whose tenure was extended by the Central Government in May, 2024

Options :

1. ✖ General Manoj Mukund Naravane

2. ✖ General Dinesh K Tripathi

3. ✔ Gen. Manoj Pande

4. ✖ General Dalbir Singh Suhag

Question Number : 18 Question Id : 71505317345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The number of PM SHRI Schools in Telangana as on 31.12.2023

Options :

1. ✖ 643

2. ✖ 443

3. ✔ 543

4. ✖ 743

Question Number : 19 Question Id : 71505317346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which one of the following is correctly matched

Options :

1. ✖ Energy : Newton

2. ✔ Pressure : Pascal

3. ✖ Force : Weber

4. ✖ Power : Joule

Question Number : 20 Question Id : 71505317347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

'Bhogini Dandakam' was written by

Options :

1. ✖ Yerrana

2. ✖ Peddana

3. ✖ Nandi Thimmana

4. ✔ Bammera Potana

Perspectives in Education

Section Id :	715053613
Section Number :	2
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 :	715053770

Question Shuffling Allowed : Yes

Question Number : 21 Question Id : 71505317348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In which period Maitreyi and Gargi became scholars in the Indian subcontinent?

Options :

1. ✔ Vedic Period

2. ✖ Kanishka Period

3. ✖ Dharmasastra Period

4. ✖ Ashoka Period

Question Number : 22 Question Id : 71505317349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The State Institutes of Education (SIEs) were set up in different states for the in-service education of teachers on the recommendations of one of the following

Options :

1. ✔ The Education Commission (1964–66)

2. ✖ National Knowledge Commission (2005)

3. ✖ Secondary Education Commission (1952–53)

4. ✖ National Policy on Education (NPE) 1986

Question Number : 23 Question Id : 71505317350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which one of the following is a major tenet of Gandhi's Basic Education?

Options :

1. ✖ Self–production

2. ✖ Work education

3. ✔ Self sufficiency

4. ✖ Village communities

Question Number : 24 Question Id : 71505317351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In the professional ethics of the teacher, one of the following is NOT a duty of the teacher towards students.

Options :

1. ✖ Transacts the curriculum in conformity with the values enshrined in the Constitution of India.

2. ✖ Respect for basic human dignity of the child in all aspects of school life.

3. ✔ Refrains from making unsubstantiated allegations against colleagues or higher authorities

4. ✖ Treats all students with love and affection.

Question Number : 25 Question Id : 71505317352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who defined education as Tripolar process ?

Options :

1. ✔ John Dewey

2. ✖ Froebel

3. ✖ Montessori

4. ✖ Rousseau

Question Number : 26 Question Id : 71505317353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

According to functionalists, education contributes to

A) Latent function

B) Manifest

Choose the correct answer:

Options :

1. ✖ A only

2. ✖ B only

3. ✖ Neither A nor B

4. ✔ Both A & B

Question Number : 27 Question Id : 71505317354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

With reference to Democratic Education, consider the following statements:

A) The cultivation of virtues, knowledge and skills necessary for political participation.

B) A generosity of spirit and commitment to the wellbeing of their society.

Choose the correct answer:

Options :

1. ✔ Both A and B are true

2. ✖ Both A and B are false

3. ✖ A is true, but B is false

4. ✖ A is false, but B is true

Question Number : 28 Question Id : 71505317355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Read the following statements (A) and (B) and choose the correct option.

Statement (A) : Eklavya Model Residential Schools run by Government of India are established to impart quality education to children from Scheduled Castes and Scheduled Tribes

Statement (B) : Kasturba Gandhi Balika Vidyalayas are established and run for girl children belonging to SC, ST, OBC, Minority Communities.

Choose the correct answer:

Options :

1. ✖ Both (A) and (B) are true

2. ✖ Only (A) is true

3. ✔ Only (B) is true

4. ✖ Both (A) and (B) are false

Question Number : 29 Question Id : 71505317356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

According to Piaget, the preschool child's thought is

Options :

1. ✖ Concrete Operational

2. ✖ Formal Operational

3. ✖ Sensori-motor

4. ✔

Pre-operational

Question Number : 30 Question Id : 71505317357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Individual differences occur due to which one of the following?

Options :

1. ✖ Genetic factors only

2. ✖ Environmental factors only

3. ✔ Both genetic and environmental factors

4. ✖ Intelligent Quotient only

Question Number : 31 Question Id : 71505317358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** a principle of development?

Options :

1. ✔ Reversible

2. ✖ Continuity

3. ✖ Sequentiality

4. ✖ General to specific

Question Number : 32 Question Id : 71505317359 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

As per this theorist, rules for language acquisition are innate

Options :

1. ✖ Bandura

2. ✔ Chomsky

3. ✖ Vygotsky

4. ✖ Skinner

Question Number : 33 Question Id : 71505317360 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

One of the following leads to forgetting in an individual

Options :

1. ✖ Putting learnt concepts in to practice

2. ✖ Using mnemonics for memorization

3. ✖ applying learnt concepts in new situations

4. ✔ disuse

Question Number : 34 Question Id : 71505317361 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In Pavlov's experiment, the dog salivates at the sight of food. Here, the 'salivation' is

A) Unconditioned response

B) Conditioned response

C) Natural response

D) Learnt response

Choose the correct answer:

Options :

1. ✔ A & C only

2. ✖ A, B, C & D

3. ✖ B & C only

4. ✖ C & D only

Question Number : 35 Question Id : 71505317362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The following issue was **NOT** addressed by NCF 2005

Options :

1. ✔ improving the parental income

2. ✖ assessing the learner

3. ✖ educational purpose

4. ✖ educational experience

Question Number : 36 Question Id : 71505317363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

What role does autonomy play in fostering innovation in education?

Options :

1. ✖ Hinders problem solving

2. ✖ Limits independence

3. ✔ Encourages experimentation and new approaches

4. ✖ Promotes top down pressure

Question Number : 37 Question Id : 71505317364 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the actions that align with the goal of protecting, restoring, and promoting life on land (SDG 15)?

Options :

1. ✖ Buy products tested on animals and chemicals while growing plant

2. ✔ Composting food scraps instead of using garbage bins

3. ✖ Shopping for pets instead of adopting animals from the local animal shelter

4. ✖ Using printing instead of using electronic devices

Question Number : 38 Question Id : 71505317365 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

How does population growth impact international migration patterns?

Options :

1. ✔ It can increase migration due to economic disparities.

2. ✖ It encourages equal distribution of resources globally.

3. ✖ It has no impact on migration.

4. ✖ It reduces international migration.

Question Number : 39 Question Id : 71505317366 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

What is the primary aim of value education?

Options :

1. ✖ To acquire knowledge about scientific principles

2. ✖ To develop physical fitness and skills

3. ✖ To make students rich and successful

4. ✔ To reflect societal values in attitudes and behaviour

Question Number : 40 Question Id : 71505317367 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The following is **NOT** a 3D aid

Options :

1. ✖ Puppets

2. ✖ Specimen

3. ✖ Globe

4. ✔ Chart

Content

Section Id :	715053614
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	88
Number of Questions to be attempted :	88
Section Marks :	44
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	715053771
Question Shuffling Allowed :	Yes

Question Number : 41 Question Id : 71505317368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following physical method is used to enrich Sulphide ores?

Options :

1. ✖ Washing

2. ✖ Hand picking

3. ✔

Froth flotation

4. ✖ Magnetic separation

Question Number : 42 Question Id : 71505317369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is the suitable method to extract metals at the top of the activity series?

Options :

1. ✔ Electrolysis of fused compounds

2. ✖ Heating the ore with C and CO

3. ✖ Auto reduction of the ore

4. ✖ Distillation

Question Number : 43 Question Id : 71505317370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In this process, metal oxide is reduced by Aluminium

Options :

1. ✖ Calcination

2. ✔ Thermite

3. ✖ Roasting

4. ✖ Liquation

Question Number : 44 Question Id : 71505317371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following hybridization takes place in each carbon atom in diamond?

Options :

1. ✖ sp

2. ✖ sp^2

3. ✔ sp^3

4. ✖ s^2p^2

Question Number : 45 Question Id : 71505317372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is true?

Options :

1. ✔ Fullerenes are formed when vaporized carbon condenses in an atmosphere of an inert gas.

2. ✖ Graphite is not a good conductor of electricity.

3. ✖ Coke is a crystalline form of carbon.

4. ✖ J.J. Berzelius produced urea in laboratory.

Question Number : 46 Question Id : 71505317373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

What is obtained when the hydrogen atom of –COOH gets replaced by an alkyl group?

Options :

1. ✖ Ketone

2. ✖ Amine

3. ✖ Ether

4. ✔ Ester

Question Number : 47 Question Id : 71505317374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

IUPAC name of organic compound $CH_2Cl - CHCl - CHO$ is

Options :

1. ✖ 1, 2–dichloro propanol

2. ✔ 2, 3–dichloro propanal

3. ✖ 2, 3–dichloro propanol

4. ✖ 1, 2–dichloro propanal

Question Number : 48 Question Id : 71505317375 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which among the following is/are used to separate immiscible liquids?

Options :

1. ✖ Beaker and watch glass

2. ✖ China dish and glass funnel

3. ✔ Separating funnel

4. ✖ Distillation flask

Question Number : 49 Question Id : 71505317376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Read the following statements and choose the correct answer

Statement P : Air is a homogeneous mixture of different gases.

Statement Q : The components in air can be separated by fractional distillation.

Options :

1. ✖ Statement P is false and statement Q is true

2. ✖ Statement P is true and statement Q is false

3. ✖ Both statement P and statement Q are false

4. ✔ Both statement P and statement Q are true

Question Number : 50 Question Id : 71505317377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** an example for a colloid?

Options :

1. ✖ Butter

2. ✔ Chalk and water mixture

3. ✖ Shoe polish

4. ✖ Mud

Question Number : 51 Question Id : 71505317378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A solution contains 25 g of common salt in 400 g of water. What is the mass percentage of the solution?

Options :

1. ✔ 5.88%

2. ✖ 6.25%

3. ✖ 94.12%

4. ✖ 93.75%

Question Number : 52 Question Id : 71505317379 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

What should be replaced by 'A, B, P, Q' to make the following equation balanced?

$\underline{\mathbf{A}}\ C_3H_8 + \underline{\mathbf{B}}\ O_2 \rightarrow \underline{\mathbf{P}}\ CO_2 + \underline{\mathbf{Q}}\ H_2O$

Options :

1. ✖ A–1, B–4, P–3, Q–2

2. ✖ A–1, B–3, P–2, Q–4

3. ✖ A–2, B–5, P–3, Q–4

4. ✔ A–1, B–5, P–3, Q–4

Question Number : 53 Question Id : 71505317380 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

In a photochemical reaction Silver bromide turns to gray colour. What was the colour of Silver bromide before the chemical reaction?

Options :

1. ✔ Light yellow

2. ✖ Light pink

3. ✖ Red

4. ✖ Blue

Question Number : 54 Question Id : 71505317381 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following chemical equation is an example of a double displacement reaction?

Options :

1. ✖ $Pb + CuCl_2 \rightarrow PbCl_2 + Cu$

2. ✖ $Cu + O_2 \rightarrow CuO$

3. ✔ $NaOH + HCl \rightarrow NaCl + H_2O$

4. ✖ $Mg + 2\,HCl \rightarrow MgCl + H_2$

Question Number : 55 Question Id : 71505317382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Valence bond theory has been suggested by

Options :

1. ✖ Nyholm

2. ✔ Linus Pauling

3. ✖ Powel

4. ✖ G N Lewis

Question Number : 56 Question Id : 71505317383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Electron configuration of Chloride ion is

Options :

1. ✖ 2, 8, 7

2. ✔ 2, 8, 8

3. ✖ 2, 8

4. ✖ 2, 2, 8

Question Number : 57 Question Id : 71505317384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following molecule is known as electron deficient molecule?

Options :

1. ✖ NaCl

2. ✖ LiH

3. ✖ NH_3

4. ✔ BF_3

Question Number : 58 Question Id : 71505317385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The total number of sigma bonds present in boron trifluoride molecule is

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 59 Question Id : 71505317386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following material **DOES NOT** show the property of ductility?

Options :

1. ✔ Iodine

2. ✖ Magnesium

3. ✖ Copper

4. ✖ Alluminium

Question Number : 60 Question Id : 71505317387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The correct reactivity order of the following metals is

Ag, Cu, Fe, Mg

Options :

1. ✔ Mg>Fe>Cu>Ag

2. ✖ Fe>Ag>Mg>Cu

3. ✖ Cu>Mg>Ag>Fe

4. ✖ Cu>Fe>Mg>Ag

Question Number : 61 Question Id : 71505317388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If '5' is marked in a triangular shape of resin identification code, then it is

Options :

1. ✖ HDPE

2. ✔ PP

3. ✖ LDPE

4. ✖ PET

Question Number : 62 Question Id : 71505317389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Separation of silk fiber from cocoon is called

Options :

1. ✔ Reeling

2. ✖ Carding

3. ✖ Rolling

4. ✖ Spinning

Question Number : 63 Question Id : 71505317390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Two drops of phenolphthalein are added to Hydrochloric acid solution. The colour change in the solution

Options :

1. ✖ Turned to red

2. ✖ Turned to yellow

3. ✖ Turned to pink

4. ✔ No change in colour

Question Number : 64 Question Id : 71505317391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is used to remove ink stains?

Options :

1. ✔ Citric acid

2. ✖ Calcium hydroxide

3. ✔ Oxalic acid

4. ✖ Ammonium hydroxide

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of the correct options are chosen.

Question Number : 65 Question Id : 71505317392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is **FALSE**?

Options :

1. ✖ Tooth decay starts when the pH of the mouth is lower than 5.5.

When pH of rainwater is less than 5.6, it is called acid rain.

2. ✖

3. ✖ Honey bee sting leaves an acid in a body which causes pain.

4. ✔ pH of human blood is 13.5.

Question Number : 66 Question Id : 71505317393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is a weak base?

Options :

1. ✖ NaOH

2. ✔ NH_4OH

3. ✖ KOH

4. ✖ $Ba(OH)_2$

Question Number : 67 Question Id : 71505317394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The energy liberated when an electron is added to its neutral gaseous atom is called

Options :

1. ✔ Electron affinity of that element

2. ✖ Ionization energy of that element.

3. ✖ Nuclear charge of that element.

4. ✖ Electronegativity of the element.

Question Number : 68 Question Id : 71505317395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following element **DOES NOT** belong to the chalcogen family?

Options :

1. ✖ Se

2. ✔ At

3. ✖ Po

4. ✖ O

Question Number : 69 Question Id : 71505317396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Lanthanides and actinides actually belong to which group?

Options :

1. ✔ 3 (III B)

2. ✖ 2 (II B)

3. ✖ 13 (III A)

4. ✖ 12 (II B)

Question Number : 70 Question Id : 71505317397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The element possessing the 'eka–aluminum' properties predicted by Mendeleeff

Options :

1. ✖ Sc

2. ✖ Al

3. ✖ Ge

4. ✔ Ga

Question Number : 71 Question Id : 71505317398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Linus Pauling assigned the electronegativity values for elements on the basis of their

Options :

1. ✖ Bond length

2. ✖ Metallic property

3. ✔ Bond energy

4. ✖ Electron affinity

Question Number : 72 Question Id : 71505317399 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The isotope of Iodine is used in the treatment of

Options :

1. ✖ Hypertension

2. ✖ Tuberculosis

3. ✔ Goiter

4. ✖ Dyslexia

Question Number : 73 Question Id : 71505317400 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The quantum mechanical model of atom was proposed by

Options :

1. ✖ Somerfield

2. ✔ Erwin Schrodinger

3. ✖ De Broglie

4. ✖ Marks Flank

Question Number : 74 Question Id : 71505317401 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

This describes the spatial orientation of orbital in an atom.

Options :

1. ✖ n

2. ✖ l

3. ✖ m_s

4. ✔ m_l

Question Number : 75 Question Id : 71505317402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Maximum number of electrons that can be accommodated in 'f' orbital is

Options :

1. ✖ 10

2. ✖ 7

3. ✖ 6

4. ✔ 14

Question Number : 76 Question Id : 71505317403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Match the following and choose the correct answer

	Element		Latin/German Name
A)	Tungsten	i)	Stibium
B)	Antimony	ii)	Hydrargyrum
C)	Mercury	iii)	Stannum
D)	Tin	iv)	Wolfram

Options :

1. ✔ A – iv, B – i, C – ii, D – iii

2. ✖ A – iii, B – ii, C – i, D – iv

3. ✖ A – i, B – iii, C – iv, D – ii

4. ✖ A – ii, B – iv, C – iii, D – i

Question Number : 77 Question Id : 71505317404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Number of water molecules in 6 g of water is

Options :

1. ✖ 6.022×10^{23}

2. ✔ 2.007×10^{23}

3. ✖ 6.022×10^{11}

4. ✖ 2.007×10^{19}

Question Number : 78 Question Id : 71505317405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Abbreviation of IUPAC

Options :

1. ✖ International Union of Public and Physics Corporation

2. ✖ International Union of Public Alliance Chemistry

3. ✔ International Union of Pure and Applied Chemistry

4. ✖ Indian Union of Physics And Chemistry

Question Number : 79 Question Id : 71505317406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A reason for higher rate of diffusion of gases is

Options :

1. ✔ The space between gas particles is very high.

2. ✖ The force of attraction between the particles in gases is more than in solids.

3. ✖ The particles in gases are arranged orderly.

Compressibility of the particles in gases is very less.

4. ✖

Question Number : 80 Question Id : 71505317407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Identify the chemical change(s) from the following.

A) Water turns to water vapour

B) Wax Melts into liquid

C) Ripening of Mangoes

D) Rusting of iron

Choose the correct answer:

Options :

1. ✖ A only

2. ✖ A & B only

3. ✖ D only

4. ✔ C & D only

Question Number : 81 Question Id : 71505317408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** soluble in water?

Options :

1. ✖ Glycerol

2. ✖ Acetone

3. ✔ Kerosine

4. ✖ Alcohol

Question Number : 82 Question Id : 71505317409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is **FALSE**?

Options :

1. ✖ Semiconductors are used to make transistors.

2. ✔ Manganin is not suitable to use as a heating element of electric irons.

3. ✖ Bulb is usually made of material with resistivity 5.60×10^{-8} ρ and melting point 3422 ^{0}C.

4. ✖ Copper is used for making electric wires.

Question Number : 83 Question Id : 71505317410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The magnetic force on a current carrying wire placed in uniform magnetic field if the wire is oriented perpendicular to magnetic field is

Options :

1. ✔ ILB

2. ✖ LI^2B

3. ✖ $2LIB$

4. ✖ $2L^2IB$

Question Number : 84 Question Id : 71505317411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following device is used for producing electric current?

Options :

1. ✖ Galvanometer

2. ✔ Generator

3. ✖ Motor

4. ✖ Magnetic needle

Question Number : 85 Question Id : 71505317412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A Magnetic field exists in the region surrounding a Bar magnet and is characterized by

Options :

1. ✖ Strength of the field but not direction of the field

2. ✖ Direction of the field but not strength of the field

3. ✖

Neither direction of the field nor strength of the field

4. ✔ Both direction of the field and strength of the field

Question Number : 86 Question Id : 71505317413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Unit of magnetic flux density is

Options :

1. ✖ Wbm

2. ✖ $\frac{Wb}{m}$

3. ✔ $\frac{Wb}{m^2}$

4. ✖ $\frac{m}{Wb}$

Question Number : 87 Question Id : 71505317414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Calculate the resultant resistance of the circuit when 2Ω, 4 Ω and 8 Ω resistors are connected in such a way that resultant resistance obtained is minimum.

Options :

1. ✖ 0.245 Ω

2. ✖ 2.245 Ω

3. ✖ 0.875 Ω

4. ✔ 1.143 Ω

Question Number : 88 Question Id : 71505317415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The part of the electric bulb that glows is

Options :

1. ✔ Filament

2. ✖ Terminals

3. ✖ Metal cap

4. ✖ Glass chamber

Question Number : 89 Question Id : 71505317416 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

For changing temperature, the V – I graph for an ohmic material will be

Options :

1. ✖ A straight line passing through the origin

2. ✖ A parallel line to X– axis

3. ✔ A Nonlinear line

4. ✖ A parallel line to Y– axis

Question Number : 90 Question Id : 71505317417 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is **NOT** true?

Options :

1. ✖ The materials attracted by the magnets are called magnetic materials.

2. ✖ Magnets are of different shapes.

3. ✖ A freely suspended bar magnet always takes position in the north and south directions of the earth.

4. ✔ We can separate the poles of a magnet.

Question Number : 91 Question Id : 71505317418 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A natural magnet is also known as

Options :

1. ✖ Attracting stone

2. ✔ Lodestone

3. ✖ Magnetic stone

4. ✖ Magnesia

Question Number : 92 Question Id : 71505317419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which type of clocks are used to measure the time interval between occurrences of events accurately in a laboratory?

Options :

1. ✖ Digital clock

2. ✔ Stop clock

3. ✖ Sundial

4. ✖ Sand dial

Question Number : 93 Question Id : 71505317420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is an application of Pascal's principle?

Options :

1. ✔ Hydraulic Jack

2. ✖ Atomiser

3. ✖ Lactometer

4. ✖ Hydrometer

Question Number : 94 Question Id : 71505317421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The force applied on the object by a liquid in upward direction is called

Options :

1. ✖ Thrust

2. ✔ Buoyancy

3. ✖ Density

4. ✖ Pressure

Question Number : 95 Question Id : 71505317422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If an object of 5 cm size is placed at 30 cm in front of a concave mirror of focal length 20 cm, then the size of the image is

Options :

1. ✖ –6 cm

2. ✖ 6 cm

3. ✔ –10 cm

4. ✖ –15 cm

Question Number : 96 Question Id : 71505317423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** a translucent object?

Options :

1. ✖ Greased paper

2. ✖ Waxed Paper

3. ✖ Frosted glass

4. ✔ Clean air

Question Number : 97 Question Id : 71505317424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A light ray is entering into optically denser medium from optically rarer medium making some angle with normal. Which of the following is **NOT** possible?

Options :

1. ✖ Refracted angle is less than the incident angle

2. ✖ The path of light ray changes in denser medium

3. ✔ Total internal reflection of light ray takes place

4. ✖ Refracted ray and incident rays lie on either side of the normal

Question Number : 98 Question Id : 71505317425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A **DISADVANTAGE** of friction to a moving car is

Options :

1. ✖ It prevents car from slipping on the road.

2. ✖ It helps the car to stop whenever it is required.

3. ✔ It reduces the life of car machine parts.

4. ✖ It helps for a safe journey.

Question Number : 99 Question Id : 71505317426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following has a self-adjusting force?

Options :

1. ✖ Drag

2. ✖ Rolling friction

3. ✖ Sliding friction

4. ✔ Static friction

Question Number : 100 Question Id : 71505317427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

When 16N force is applied on a block to move, friction resisted its motion.

What is the resultant force on the block if you push upward with 6N force

when the earth pulls it with 12N?

Options :

1. ✖ 6 N

2. ✖ 12 N

3. ✔ -6 N

4. ✖ 16 N

Question Number : 101 Question Id : 71505317428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A wooden block is suspended with the help of a string. What type of force is exerted by the string on the block?

Options :

1. ✖ Gravitational force

2. ✖ Electrostatic force

3. ✔ Tension

4. ✖ Force of Friction

Question Number : 102 Question Id : 71505317429 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Find the kinetic energy of a ball of 150 g mass moving with velocity 50 cm/s.

Options :

1. ✔ 0.01875 J

2. ✖ 0.06445 J

3. ✖ 0.00875 J

4. ✖ 0.33244 J

Question Number : 103 Question Id : 71505317430 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A block of 3 kg mass is lifted up through 2 m from the ground. The potential energy of the block at that point is $(g=9.8\ \frac{m}{s^2})$

Options :

1. ✔ 58.8 J

2. ✖ 48.8 J

3. ✖ 5.88 J

4. ✖ 6 J

Question Number : 104 Question Id : 71505317431 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is constant in uniform circular motion?

Options :

1. ✖ Velocity

2. ✖ Acceleration

3. ✔ Speed

4. ✖ Impulse

Question Number : 105 Question Id : 71505317432 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Weight of a 10 kg body is

Options :

1. ✖ 9.8 N

2. ✖ 0.98 N

3. ✖ 45 N

4. ✔ 98N

Question Number : 106 Question Id : 71505317433 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If the acceleration of a moving body is constant, then the motion is said to be

Options :

1. ✖ Motion with constant speed

2. ✔ Motion with uniform acceleration

3. ✖ Motion with non–uniform acceleration

4. ✖ Motion with uniform velocity

Question Number : 107 Question Id : 71505317434 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A car travels from rest with the constant acceleration $2 m/s^2$ for 10 s. What is the average speed of the car for its journey if the car moves along a straight line?

Options :

1. ✔ 10 m/s

2. ✖ 15 m/s

3. ✖ 20 m/s

4. ✖ 25 m/s

Question Number : 108 Question Id : 71505317435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The first planet outside the orbit of the earth is

Options :

1. ✖ Jupiter

2. ✔ Mars

3. ✖ Saturn

4. ✖ Venus

Question Number : 109 Question Id : 71505317436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The eclipse formed when the moon completely covers the sun when seen from the Earth is

Options :

1. ✖ Annular solar eclipse

2. ✖ Penumbral lunar eclipse

3. ✔ Total solar eclipse

4. ✖ Total lunar eclipse

Question Number : 110 Question Id : 71505317437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following materials were used by Thomas Alva Edison as filaments in his electric bulb experiments?

A) Cotton

B) Platinum

C) Bamboo

D) Tungsten

Choose the correct answer:

Options :

1. ✔ A, B & C only

2. ✖ B, C & D only

3. ✖ A, C & D only

4. ✖ A, B, C & D

Question Number : 111 Question Id : 71505317438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Usually, the magnitude of earthquakes on the Richter scale is greater than this value can cause serious damage in areas several hundred kilometers across.

Options :

1. ✖ 5

2. ✖ 6

3. ✖ 7

4. ✔ 8

Question Number : 112 Question Id : 71505317439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The temperature of a steel rod is 373 K. Its temperature in °C is

Options :

1. ✖ 57

2. ✔ 100

3. ✖ 98

4. ✖ 373

Question Number : 113 Question Id : 71505317440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

If 'm' is the mass of liquid, 'Q' is calories of heat energy and 'L' is Latent heat of vaporisation. The relation between m, Q and L is

Options :

1. ✖

$Q = \frac{m}{L}$

2. ✖ $Q = \frac{L^2}{m}$

3. ✔ $Q = Lm$

4. ✖ $Q = \frac{2L}{m}$

Question Number : 114 Question Id : 71505317441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

An echo is heard after 1.5 s when a boy shouted in front of a hill. What is the distance of the hill from the boy? (Speed of sound is 330 m/s)

Options :

1. ✖ 495 m

2. ✖ 450.5 m

3. ✔ 247.5 m

4. ✖ 535.5 m

Question Number : 115 Question Id : 71505317442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is the audible range of humans?

Options :

1. ✖ 0 Hz – 19 Hz

2. ✔ 20 Hz – 20000 Hz

3. ✖ 30000 Hz – 40000 Hz

4. ✖ 50000 Hz – 70000 Hz

Question Number : 116 Question Id : 71505317443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who among the following scientists names the electric charge as positive and negative?

Options :

1. ✖ Michael Faraday

2. ✖ Oersted

3. ✖ Luigi Galvani

4. ✔ Benjamin Franklin

Question Number : 117 Question Id : 71505317444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In a dry cell, carbon rod is surrounded by a mixture of

Options :

1. ✖ Carbon particles and Sodium chloride

2. ✖

Aluminium chloride and Sodium sulphate

3. ✔ Carbon particles and Ammonium chloride

4. ✖ Barium sulphate and Copper sulphate

Question Number : 118 Question Id : 71505317445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Burning of white phosphorus in air is an example for

Options :

1. ✔ Spontaneous combustion

2. ✖ Rapid combustion

3. ✖ Slow combustion

4. ✖ Explosion

Question Number : 119 Question Id : 71505317446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following do **NOT** produce flame on burning?

Options :

1. ✖ Petrol

2. ✖ Kerosene

3. ✔

Coal

4. ✖ diesel

Question Number : 120 Question Id : 71505317447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** obtained from coal tar?

Options :

1. ✖ Synthetic dyes

2. ✔ Coal

3. ✖ Pesticides

4. ✖ Paints

Question Number : 121 Question Id : 71505317448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which of the following is the most feasible and currently practicable method of conserving Coal and Petroleum resources?

Options :

1. ✖ Opting for a different model of development which does not depend upon these sources.

2. ✔ Reducing wastage of Coal and Petroleum resources

3. ✖ Using washing machines and dryers even in rural areas.

4. ✖ Use automobiles even for traveling short distances.

Question Number : 122 Question Id : 71505317449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is true?

Options :

1. ✔ The factors hot, cold, winds, rain etc. describe the weather of a place.

2. ✖ Weather does not affect our life.

3. ✖ Hygrometer is used to measure wind speed.

4. ✖ We can measure temperature of a place using clinical thermometer

Question Number : 123 Question Id : 71505317450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following statements is **FALSE**?

Options :

1. ✖ We need water for industrial uses.

2. ✖ 43% of water related deaths are due to Diarrhoea.

3. ✖ In the stages of drinking water supply, aeration comes after filtration.

4. ✔ In the stages of drinking water supply, aeration comes after chlorination.

Question Number : 124 Question Id : 71505317451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The period of Southwest monsoon in Telangana is

Options :

1. ✖ May to August

2. ✔ June to September

3. ✖ January to March

4. ✖ November to December

Question Number : 125 Question Id : 71505317452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which one of the following is a consequence of global warming?

Options :

1. ✔ Disturbs the water cycle and causes either floods or drought.

2. ✖ Pollution from factories decrease.

3. ✖ Atmospheric conditions are favourable for clouds to get cooled.

4. ✖ Temperature of the place rapidly decreases.

Question Number : 126 Question Id : 71505317453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Among the following, the factors which contribute to the development of cyclone are:

A) Wind speed

B) Lightning

C) Temperature

D) Humidity

Choose the correct answer:

Options :

1. ✖ A, B & C only

2. ✖ B, C & D only

3. ✔ A, C & D only

4. ✖ A, B, C & D

Question Number : 127 Question Id : 71505317454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The original scale used as standard measurement for the length is preserved at a museum in this country

Options :

1. ✖ United States of America

2. ✖ Russia

3. ✖ China

4. ✔ France

Question Number : 128 Question Id : 71505317455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

The standard unit used for measurement of volume of solids is

Options :

1. ✔ cm^3

2. ✖ cl^3

3. ✖ mm

4. ✖ m^2

Methodology

Section Id :	715053615
Section Number :	4
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	32
Number of Questions to be attempted :	32
Section Marks :	16
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	715053772
Question Shuffling Allowed :	Yes

Question Number : 129 Question Id : 71505317456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

A student noticed that out of two Brinjal plants in his backyard, one plant's Brinjal was larger than the other's. From this observation, he wrote the following sentences.

i) The more sunlight the Brinjal plant gets, the bigger the Brinjals will grow.

ii) The more water the plant receives, the bigger the size of the Brinjals.

This is a/an

Options :

1. ✔ Hypothesis

2. ✖ Generalization

3. ✖ Analysis

4. ✖ Testing

Question Number : 130 Question Id : 71505317457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

"In the past, chlorine gas was used to bleach paper, but now hydrogen peroxide is used instead." This change is most appropriate for

Options :

1. ✖ Physical Sciences – Health

2. ✖ Physical Sciences – Society

3. ✔ Physical Sciences – Environment

4. ✖ Physical Sciences – Peace

Question Number : 131 Question Id : 71505317458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The knowledge of "gases expand on heating" is used to install ventilators in house construction is

Options :

1. ✖ Cultural value

2. ✔ Intellectual value

3. ✖ Creative value

4. ✔ Utilitarian value

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of the correct options are chosen.

Question Number : 132 Question Id : 71505317459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Who among the following developed a device for generating electromagnetic waves of ultra short wavelength?

Options :

1. ✔ J.C. Bose

2. ✖ Bimla Buti

3. ✖ C.V. Raman

4. ✖ Satyendra Nath Bose

Question Number : 133 Question Id : 71505317460 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

'Inculcating scientific knowledge among the students' is a/an

Options :

1. ✖ Objective

2. ✔ Aim

3. ✖ Goal

4. ✖ Characteristic

Question Number : 134 Question Id : 71505317461 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Which one of the following statements both condition and criteria have been considered while writing a learning objective?

Options :

1. ✖ To know the factors affecting the period of oscillation of a pendulum.

2. ✖ To find how the time period of the pendulum changes when the length of the string is kept constant and the radius of the pendulum is changed.

3. ✖ To find how the time period of the pendulum changes when the radius of the pendulum is kept constant and the length of the string is changed.

4. ✔

Finding the relationship between the length of the string and the radius of the pendulum over the time period of pendulum.

Question Number : 135 Question Id : 71505317462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Arranging the required apparatus in sequential order for an experiment is

Options :

1. ✔ Manipulation

2. ✖ Articulation

3. ✖ Naturalisation

4. ✖ Imitation

Question Number : 136 Question Id : 71505317463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Correct Marks : 0.5 Wrong Marks : 0

Read the following statements and choose the correct answer:

Statement I : Psychomotor domain is developed by Elizabeth Simpson and R.H. Dave.

Statement II : Participating in science clubs comes under the Affective domain.

Options :

1. ✖ Statement I is true and Statement II is false

2. ✖ Statement I is false and Statement II is true.

3. ✔ Both Statement I and Statement II are true

4. ✖ Both Statement I and Statement II are false

Question Number : 137 Question Id : 71505317464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** a key element of the 'Science Education Vision' according to NCF 2005?

Options :

1. ✖ Learner

2. ✔ Teacher

3. ✖ The surroundings of the learner (nature, society)

4. ✖ content of learning (science)

Question Number : 138 Question Id : 71505317465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** creativity?

Options :

1. ✖ Divergent thinking

2. ✖ Innovation

3. ✖ Originality

4. ✔ Hard work

Question Number : 139 Question Id : 71505317466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is **NOT** an academic standard of Physical sciences in Telangana state?

Options :

1. ✖ Conceptual understanding

2. ✔ Representation

3. ✖ CollectingInformation and projects

4. ✖ Experimentation and field investigation

Question Number : 140 Question Id : 71505317467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In this psychological approach, students construct knowledge on their own, so that learning is meaningful and beneficial.

Options :

1. ✔ Constructivist approach

2. ✖ Realistic approach

3. ✖ Liberalistic approach

4. ✖ Behaviourist approach

Question Number : 141 Question Id : 71505317468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The tactual aid among the following is

Options :

1. ✔ Braille

2. ✖ Speech synthesizer

3. ✖ Voice output communication air

4. ✖ Digital Book

Question Number : 142 Question Id : 71505317469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The first National Curriculum Framework was published by the NCERT in

Options :

1. ✖ 1968

2. ✖ 1986

3. ✔ 1975

4. ✖ 2005

Question Number : 143 Question Id : 71505317470 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Learning through computer simulation is an example of

Options :

1. ✗ Direct purposeful Experience

2. ✗ Dramatized Experience

3. ✓ Contrived Experience

4. ✗ Demonstrated Experience

Question Number : 144 Question Id : 71505317471 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The difference between what the children can learn without support and what the children can learn with support or good instruction is called the

Options :

1. ✗ accommodation

2. ✗ concept attainment

3. ✗ discovery learning

4. ✓ zone of proximal development

Question Number : 145 Question Id : 71505317472 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In Telangana state, an activity given under 'think and discuss' in tenth class physical sciences text book as "Which gas is usually liberated when an acid reacts with a metal?". This belongs to which phase in 5E learning model?

Options :

1. ✖ Engage

2. ✖ Explain

3. ✖ Evaluate

4. ✔ Explore

Question Number : 146 Question Id : 71505317473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

In collaborative learning approach, this group formulates different hypotheses and tries to find out different solutions for a problem.

Options :

1. ✖ Brain storming group

2. ✖ Task group

3. ✔ Exploration group

4. ✖ Tutorial group

Question Number : 147 Question Id : 71505317474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Examine the following with respect to problem solving approach and choose the correct statements.

A) Teacher identifies a problem.

B) Students identify a problem.

C) Teacher formulates hypothesis.

D) Teacher act as a facilitator.

Options :

1. ✖ A, B & D only

2. ✖ B & C only

3. ✖ A, C & D only

4. ✔ B & D only

Question Number : 148 Question Id : 71505317475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Read the following statements and choose the correct answer

Statement I : The concept of Concept map is the result of the Novak's "Meaningful learning theory."

Statement II : Concept maps reduce the burden on students to memorize the material.

Options :

1. ✖ Statement I is true and Statement II is false

2. ✔ Statement I is false and Statement II is true.

3. ✖ Both Statement I and Statement II are true

Both Statement I and Statement II are false

4. ✖

Question Number : 149 Question Id : 71505317476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

A teacher wants to use the resources available from immediate surroundings to teach her lesson on "Acids and bases". Which of the following can be used?

Options :

1. ✖ Litmus papers

2. ✖ Universal Indicators

3. ✔ Olfactory Indicators

4. ✖ Phenolphthalein solution

Question Number : 150 Question Id : 71505317477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Low-cost teaching aids come under

Options :

1. ✔ Improvised apparatus

2. ✔ Science kit

3. ✖ Test kit

4. ✖ Complete Laboratory

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of the correct options are chosen.

Question Number : 151 Question Id : 71505317478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Classifying is a science process skill which can be measured through

Options :

1. ✔ Rating Scale

2. ✖ Slip test

3. ✖ Lab activity

4. ✖ Written works

Question Number : 152 Question Id : 71505317479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Read the following statements and choose the correct answer

Statement I : In science, learning objectives of the same theme or topic are same at upper primary, secondary and higher secondary stage.

Statement II : At upper primary stage, the learners are encouraged to learn principles of physical science through observation and concrete examples relating to their everyday life experiences.

Options :

1. ✖ Statement I is true and Statement II is false

2. ✔ Statement I is false and Statement II is true

3. ✖ Both Statement I and Statement II are true

4. ✖ Both Statement I and Statement II are false

Question Number : 153 Question Id : 71505317480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

An App developed by the central government to add technology to education by printing QR codes on text books and linking them with digital lessons

Options :

1. ✔ DIKSHA

2. ✖ NISHTHA

3. ✖ PINDICS

4. ✖ e-PATHSHALA

Question Number : 154 Question Id : 71505317481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Among the following, identify an example of Synchronous Communication in education.

Options :

1. ✖ Blog

2. ✖ Website

3. ✖ Podcast

4. ✔ Video chat

Question Number : 155 Question Id : 71505317482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The approach for Laboratory work can be planned as

Options :

1. ✖ Inductive method only

2. ✖ Deductive method only

3. ✔ Both Inductive method and Deductive method

4. ✖ Neither Inductive method nor Deductive method

Question Number : 156 Question Id : 71505317483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

World Environment day and National Science day should be included in these months respectively while preparing annual plan in science

Options :

1. ✖ January and June

2. ✔ June and February

3. ✖ April and November

4. ✖ December and March

Question Number : 157 Question Id : 71505317484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

The simplest way to teach the lesson is to start the period from

A) the students' previous knowledge

B) the facts which are unknown to the learners

C) the probing questions

D) the discussion in groups

Choose the correct answer:

Options :

1. ✖ A & B only

2. ✖ B & C only

3. ✔ A &C only

4. ✖ B & D only

Question Number : 158 Question Id : 71505317485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following provides a description of the behaviour of the students?

Options :

1. ✖ Rating scale

2. ✖ Check list

3. ✖ Rubrics

Anecdotal record

4. ✔

Question Number : 159 Question Id : 71505317486 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is common in formative assessment for all non-language subjects in Telangana state?

Options :

reflection on contemporary issues

1. ✖

slip test

2. ✔

think and discuss

3. ✖

do this – try this

4. ✖

Question Number : 160 Question Id : 71505317487 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 0.5 Wrong Marks : 0

Which of the following is the less appropriate for assessing the students with special needs?

Options :

Assessment by teachers

1. ✖

Assessment by Peers

2. ✖

Assessment by Siblings

3. ✖

4. ✔

Self-assessment