

Banaras Hindu University

Question Paper Name: 489 14th May 2019 Shift 1
Subject Name: 489
Creation Date: 2019-05-14 13:50:13
Duration: 120
Total Marks: 360
Display Marks: Yes
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

M.Sc. in Environmental Science

Group Number : 1
Group Id : 54310752
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 360

Section A Basic Env.

Section Id : 54310765
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 30
Number of Questions to be attempted: 30
Section Marks: 90
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 54310768
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 5431075672 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following groups all are autotrophs ?

Options :

1. Spinach, Mushroom, Tomato, Yeast

2. Tulsi, Algae, Cuscuta, Mushroom
3. Algae, Spinach, Tomato, Banana
4. Algae Mushroom, Banana, Mango

Question Number : 2 Question Id : 5431075673 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which form of the coal has highest calorific value ?

Options :

1. Peat
2. Bituminous
3. Lignite
4. Anthracite

Question Number : 3 Question Id : 5431075674 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Environment (Protection) Act came into force in :

Options :

1. 1988
2. 1986
3. 1984
4. 1987

Question Number : 4 Question Id : 5431075675 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* a water-borne disease ?

Options :

1. Typhoid
2. Jaundice
3. Cholera
4. Malaria

Question Number : 5 Question Id : 5431075676 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Brown lung disease (Byssinosis) is caused by :

Options :

1. Coal dust
2. Cotton fiber
3. Talc
4. Sugarcane fiber

Question Number : 6 Question Id : 5431075677 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ecesis is defined as :

Options :

1. Development of bare area
2. Process of establishment of a migrant in a new place
3. Migration of reproductive structure to a barren area
4. Increase in number of species

Question Number : 7 Question Id : 5431075678 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Rate of change in number of species per unit change in habitat is known as :

Options :

1. Alpha diversity
2. Beta diversity
3. Gamma diversity
4. Ecosystem diversity

Question Number : 8 Question Id : 5431075679 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Full form of IUCN is :

Options :

1. International Union for Conservation of Nature
2. International Unit to Conserve the Nation
3. International Union for Conservation of Nature and Natural Resources
4. International Union for Communication between Nations

Question Number : 9 Question Id : 5431075680 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Species likely to become endangered in the near future are known as :

Options :

1. Endangered species
2. Threatened species
3. Vulnerable species
4. Rare species

Question Number : 10 Question Id : 5431075681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Simlipal National Park is situated in :

Options :

1. Orissa
2. Karnataka
3. Sikkim
4. Assam

Question Number : 11 Question Id : 5431075682 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Photochemical smog is also known as :

Options :

1. Los Angeles Smog
2. London Smog
3. Industrial Smog
4. Sulphurous Smog

Question Number : 12 Question Id : 5431075683 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Global warming potential is calculated by relating with :

Options :

1. CO_2
2. CH_4
3. CO
4. N_2O

Question Number : 13 Question Id : 5431075684 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Climax community results from :

Options :

1. Cohabilitation
2. Stratification
3. Succession
4. Competition

Question Number : 14 Question Id : 5431075685 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Aerosol is :

Options :

1. Carbon particles of microscopic size
2. Dispersion of small solid or liquid particles in gaseous medium
3. Fine particles of ash
4. Diffused liquid particles of ash

Question Number : 15 Question Id : 5431075686 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Algal bloom is an indicator of :

Options :

1. Water pollution due to eutrophication
2. Water pollution due to pesticides
3. Water pollution due to metals
4. Soil pollution

Question Number : 16 Question Id : 5431075687 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Earthquake is measured in :

Options :

1. Richter scale
2. Mho scale
3. Decible
4. Hertz

Question Number : 17 Question Id : 5431075688 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The ore with highest percentage of silver is :

Options :

1. Argentite
2. Polybasic
3. Proustite
4. Pyrargyrite

Question Number : 18 Question Id : 5431075689 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Acid rain is characterized by a pH value of :

Options :

1. 7.0
2. < 5.6
3. < 7.0

4. < 6.5

Question Number : 19 Question Id : 5431075690 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is important for green manuring ?

Options :

1. Wheat
2. Rice
3. Sesbania
4. Cauliflower

Question Number : 20 Question Id : 5431075691 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following pair is *correctly* matched ?

Options :

1. Sulphur dioxide and Teeth damage
2. Fluoride pollution and Bhopal Gas Tragedy
3. Methyl isocyanate and Acid rain
4. Ozone depletion and Skin cancer

Question Number : 21 Question Id : 5431075692 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following represents the sedimentary type of nutrient cycle ?

Options :

1. Sulphur
2. Phosphorus

3. Nitrogen

4. Oxygen

Question Number : 22 Question Id : 5431075693 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The world's most problematic aquatic weed is :

Options :

1. Water hyacinth

2. *Parthenium*

3. Cactus

4. *Calotropis*

Question Number : 23 Question Id : 5431075694 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The transformation of pond to forest community is an example of :

Options :

1. Xerarch succession

2. Mesarch succession

3. Hydrarch succession

4. All of the three

Question Number : 24 Question Id : 5431075695 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Replacement of community by external factors is known as :

Options :

1. Secondary succession
2. Allogetic succession
3. Autotrophic succession
4. Heterotrophic succession

Question Number : 25 Question Id : 5431075696 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Rate of storage of organic matter not used by hetrotrophs is known as :

Options :

1. Gross primary productivity
2. Net community productivity
3. Net primary productivity
4. Secondary productivity

Question Number : 26 Question Id : 5431075697 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Plant species that tolerate high light intensity is known as :

Options :

1. Sciophytes
2. Heliophytes
3. Xerophytes
4. Psamophytes

Question Number : 27 Question Id : 5431075698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Genetically different plants referred to :

Options :

1. Ecads
2. Ecotypes
3. Ecophenes
4. Ecoregions

Question Number : 28 Question Id : 5431075699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A keystone species is a species that has :

Options :

1. a disproportionately large effect on its community
2. a disproportionately small effect on its community
3. a neutral role on its community
4. None of the three

Question Number : 29 Question Id : 5431075700 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Biodiversity includes :

Options :

1. Species diversity
2. Genetic diversity
3. Ecosystem diversity
4. All of the three

Question Number : 30 Question Id : 5431075701 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Phytoplankton are :

Options :

1. Photosynthetic organisms
2. Non-photosynthetic organisms
3. Parasites
4. Symbionts

Section A Chemistry

Section Id :	54310766
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	60
Number of Questions to be attempted:	60
Section Marks:	180
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	54310769
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 5431075702 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The anion which contains bridging oxygen is :

Options :

1. MnO_4^-
2. $Cr_2O_7^{2-}$
3. CO_3^{2-}
4. SO_4^{2-}

Question Number : 32 Question Id : 5431075703 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The number of neutrons in $^{40}\text{Ca}^{2+}$ are :

Options :

1. 40
2. 22
3. 20
4. 18

Question Number : 33 Question Id : 5431075704 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The gas which gives green colour with a solution of $\text{K}_2\text{Cr}_2\text{O}_7$, is :

Options :

1. CO_2
2. NO
3. SO_2
4. CO

Question Number : 34 Question Id : 5431075705 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Wilson disease is caused by the toxicity due to :

Options :

1. Cd
2. Hg

3. Pb

4. Cu

Question Number : 35 Question Id : 5431075706 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The compound known as 'Prussian blue' is :

Options :

1. $Fe_2[Fe(CN)_6]$

2. $Fe_4[Fe(CN)_6]_3$

3. $K_3[Fe(CN)_6]$

4. $K_4[Fe(CN)_6]$

Question Number : 36 Question Id : 5431075707 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The mineral lautarite is :

Options :

1. CaF_2

2. Fe_2O_3

3. $CaIO_3$

4. $Cu(OH)_2$

Question Number : 37 Question Id : 5431075708 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The compound possessing maximum π -bonds is :

Options :

1. N_2
2. O_2
3. PCl_5
4. Be_2

Question Number : 38 Question Id : 5431075709 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Diopside is :

Options :

1. $ZrSiO_4$
2. $ZrSO_4$
3. $CaMgSi_2O_6$
4. $BeSiO_4$

Question Number : 39 Question Id : 5431075710 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The compound which occurs in nature as corundum is :

Options :

1. $\alpha-Al_2O_3$
2. Na_2SiO_3
3. SiC
4. Al_4C_3

Question Number : 40 Question Id : 5431075711 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Raschig synthesis is related with the preparation of :

Options :

1. $KMnO_4$
2. CrO_2Cl_2
3. $K_2Cr_2O_7$
4. N_2H_4

Question Number : 41 Question Id : 5431075712 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Maximum bond order is, in :

Options :

1. NO^+
2. CO^+
3. NO^-
4. F_2

Question Number : 42 Question Id : 5431075713 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Rutile is isomorphous with :

Options :

1. PbO
2. SnO_2
3. Fe_3O_4
4. $SnCl_4$

Question Number : 43 Question Id : 5431075714 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The ion which acts as a probe of K^+ , is :

Options :

1. Tl^+

2. Sn^{2+}

3. In^+

4. Cs^+

Question Number : 44 Question Id : 5431075715 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The characteristic feature of UO_2^{2+} compound is :

Options :

1. Nuclear fuel

2. Isotopic tracer

3. Fluorescence

4. Fission material

Question Number : 45 Question Id : 5431075716 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

XeF_6 acts as :

Options :

1. F^- donor

2. shift reagent

3. F^- acceptor

4. explosive

Question Number : 46 Question Id : 5431075717 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In sea water, Cl_2 occurs as :

Options :

1. $CaCl_2$

2. $NaCl$

3. $CsCl$

4. $BaCl_2$

Question Number : 47 Question Id : 5431075718 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The geometry of ozone gas is :

Options :

1. linear

2. planar

3. bent

4. tetrahedral

Question Number : 48 Question Id : 5431075719 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

CO_2 is responsible for global warming owing to :

Options :

1. absorption of UV radiation

2. emission of UV radiation

3. absorption of IR radiation
4. Thermal emission

Question Number : 49 Question Id : 5431075720 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The compound used for the preparation of a nitrogenous fertilizer is :

Options :

1. CaC_2
2. $CaCl_2$
3. $CaSO_4 \cdot \frac{1}{2}H_2O$
4. $Ca_3(PO_4)_2$

Question Number : 50 Question Id : 5431075721 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Poisoning due to KCN is controlled by the drinking of a solution of :

Options :

1. $LiCl$
2. $FeCl_3$
3. $BaCl_2$
4. $AlCl_3$

Question Number : 51 Question Id : 5431075722 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The one used as thermometer liquid is :

Options :

1. ICl
2. Ga
3. In
4. Ge

Question Number : 52 Question Id : 5431075723 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The one which reduces CaO to Ca at higher temperature is :

Options :

1. Cr
2. Al
3. Coke
4. Co

Question Number : 53 Question Id : 5431075724 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Na^+ , Mg^{2+} , Al^{3+} and Si^{4+} ions are isoelectronic. The values of ionic radii of these ions would be in the order :

Options :

1. $Na^+ > Mg^{2+} > Al^{3+} > Si^{4+}$
2. $Na^+ < Mg^{2+} < Al^{3+} < Si^{4+}$
3. $Na^+ > Mg^{2+} > Al^{3+} < Si^{4+}$
4. $Na^+ < Mg^{2+} > Al^{3+} > Si^{4+}$

Question Number : 54 Question Id : 5431075725 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The ion with the strongest polarizing capacity is :

Options :

1. Ba^{2+}
2. Cs^+
3. Ca^{2+}
4. Li^+

Question Number : 55 Question Id : 5431075726 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The electron affinity of N, O, S, Cl are such that :

Options :

1. $N < O < S < Cl$
2. $Cl < S < O < N$
3. $O < N < Cl < S$
4. $O \approx Cl < N \approx S$

Question Number : 56 Question Id : 5431075727 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Amongst the following metals, which one forms peroxide on heating in excess oxygen ?

Options :

1. Lithium
2. Sodium
3. Barium

4. Aluminium

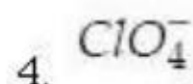
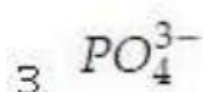
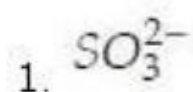
Question Number : 57 Question Id : 5431075728 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hypervalent ion is :

Options :



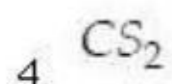
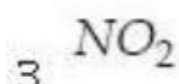
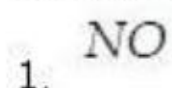
Question Number : 58 Question Id : 5431075729 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

There is $p\pi - d\pi$ multiple bonding in :

Options :



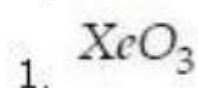
Question Number : 59 Question Id : 5431075730 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the molecules is sp^3d hybridized ?

Options :



2. XeF_4
3. $XeOF_2$
4. $XeOF_4$

Question Number : 60 Question Id : 5431075731 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Sodium metal crystallizes in body-centered cubic lattice with the cell edge,
 $a = 4.29 \text{ \AA}$. The radius of sodium atom is :

Options :

1. 18.576 \AA
2. 1.8576 \AA
3. 185.76 \AA
4. 0.18576 \AA

Question Number : 61 Question Id : 5431075732 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The uncertainty in position of an electron is zero. The uncertainty in its
momentum would be :

Options :

1. zero
2. $>h/2\pi$
3. $<h/2\pi$
4. infinity

Question Number : 62 Question Id : 5431075733 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The strength of hydrogen bond ranges from :

Options :

1. 2-8 kcal
2. 20-40 kcal
3. 40-60 kcal
4. > 80 kcal

Question Number : 63 Question Id : 5431075734 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following represents a set of soft acid and soft base ?

Options :

1. Cu^+, H_2O
2. Au^{2+}, CO
3. Ag^+, R_2O
4. Pd^{2+}, F^-

Question Number : 64 Question Id : 5431075735 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following ions is paramagnetic ?

Options :

1. La^{3+}
2. Lu^{3+}
3. Yb^{2+}
4. Sm^{3+}

Question Number : 65 Question Id : 5431075736 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The lanthanide contraction is due to :

Options :

1. filling of $5d$ before $4f$
2. filling of $4d$ before $4f$
3. filling of $4f$ before $5d$
4. filling of $4f$ before $4d$

Question Number : 66 Question Id : 5431075737 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The stability order of +2 oxidation state is :

Options :

1. $Eu^{2+} > Yb^{2+} > Sm^{2+}$
2. $Sm^{2+} > Yb^{2+} > Eu^{2+}$
3. $Yb^{2+} > Sm^{2+} > Eu^{2+}$
4. $Eu^{2+} > Sm^{2+} > Yb^{2+}$

Question Number : 67 Question Id : 5431075738 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following transition elements shows the highest oxidation state ?

Options :

1. V
2. Cr

3. Mn

4. Fe

Question Number : 68 Question Id : 5431075739 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The asymmetric nature of visible absorption band of $[Ti(H_2O)_6]^{3+}$ is due to :

Options :

1. Laporte's allowed transition
2. Laporte's forbidden transition
3. Dynamic Jahn-Teller effect
4. Intensity stealing transition

Question Number : 69 Question Id : 5431075740 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Among the following complexes, optical activity is possible in :

Options :

1. $[Co(H_2O)_2(NH_3)_2Cl_2]$
2. $[Co(NH_3)_4(NO_2)Cl]^+$
3. $[Co(CN)_5NC]^-$
4. $[Cr(H_2O)_4Cl_2]^+$

Question Number : 70 Question Id : 5431075741 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The most acidic aqua ion is :

Options :

1. $[Fe(H_2O)_6]^{3+}$
2. $[Ti(H_2O)_6]^{3+}$
3. $[Co(H_2O)_6]^{3+}$
4. $[Cr(H_2O)_6]^{3+}$

Question Number : 71 Question Id : 5431075742 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

For a thermodynamic system, Helmholtz free energy is a function of :

Options :

1. S, V
2. V, T
3. T, P
4. S, P

Question Number : 72 Question Id : 5431075743 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In an isothermal change, the internal energy of molecules :

Options :

1. may increase or decrease
2. does not change
3. increases
4. decreases

Question Number : 73 Question Id : 5431075744 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A Carnot cycle operates on a working substance between two reservoirs at temperature T_1 and T_2 , where $T_1 > T_2$. During each cycle, an amount of heat Q_1 is extracted from the reservoir at T_1 and an amount Q_2 is delivered to the reservoir at T_2 . Which of the following statement is *incorrect* ?

Options :

1. Work done in one cycle is $Q_1 - Q_2$

2. $\frac{Q_1}{T_1} = \frac{Q_2}{T_2}$

3. Entropy of the hotter reservoir decreases

4. Entropy of the universe (consisting of the working substance and two reservoirs) increases

Question Number : 74 Question Id : 5431075745 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Gibbs phase rule is :

Options :

1. $F = P - C + 2$

2. $F = C - P + 2$

3. $P = F - C + 2$

4. $P = F - C + 1$

Question Number : 75 Question Id : 5431075746 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ozonolysis of 1-methyl cyclohexene will give :

Options :

1. 6-Oxoheptanol

2. Methyl hexanone

3. 1, 6-Heptandiol

4. 2-Methylcyclohexanone

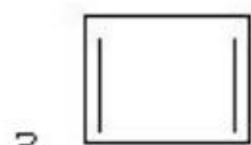
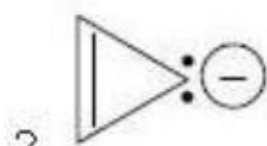
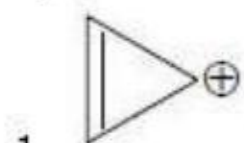
Question Number : 76 Question Id : 5431075747 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following compounds will be aromatic ?

Options :



Question Number : 77 Question Id : 5431075748 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Phenol reacts with formaldehyde to give Bakelite in the presence of a base, is known as :

Options :

1. Gattermann reaction

2. Houben-Hoesch reaction

3. Phthalein reaction

4. Laderer-Manase reaction

Question Number : 78 Question Id : 5431075749 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following compounds will give iodoform test ?

Options :

1. CH_3OH
2. $CH_3CH(OH)CH_3$
3. $CH_3CH_2CH_2OH$
4. $C_6H_5CH_2OH$

Question Number : 79 Question Id : 5431075750 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ionic conductance at infinite solution of Ag^+ and NO_3^- ions are 57.6 and 62.4, respectively. What will be the equivalent conductance of $AgNO_3$ at infinite dilution at the same temperature ?

Options :

1. 4.8
2. 57.6
3. 120.0
4. 62.4

Question Number : 80 Question Id : 5431075751 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following sentences is a wrong statement ?

Options :

1. Surface tension and viscosity of liquids generally decrease with rise in temperature
2. Surface active agents lower the surface tension of liquids

- When cohesion force is greater than adhesion force, the liquid wets the
3. surface of the solids in its contact
 4. Surface tension of a liquid reduces the area of the surface to a minimum

Question Number : 81 Question Id : 5431075752 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When concentration of a reactant is doubled, the rate of reaction becomes four times. The order of reaction is :

Options :

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

Question Number : 82 Question Id : 5431075753 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The p-type semiconductor is obtained when Si is doped with :

Options :

1. Al
2. Ge
3. Ga
4. As

Question Number : 83 Question Id : 5431075754 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A crystal having unit cell dimensions $a \neq b \neq c$, $\alpha = \beta = \gamma = 90^\circ$ is :

Options :

1. tetragonal
2. orthorhombic
3. cubic
4. hexagonal

Question Number : 84 Question Id : 5431075755 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The gases which show heating effect during Joule-Thomson expansion are those with :

Options :

1. very low inversion temperature
2. very high inversion temperature
3. moderate inversion temperature
4. greater attraction between their molecules

Question Number : 85 Question Id : 5431075756 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a phase diagram for pure water, P is a point where ice, water and vapour co-exist in equilibrium. What is the degree of freedom at P ?

Options :

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

Question Number : 86 Question Id : 5431075757 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cannizzaro reaction is not given by :

Options :

1. Formaldehyde
2. Acetaldehyde
3. Benzaldehyde
4. Trimethylacetaldehyde

Question Number : 87 Question Id : 5431075758 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Liquid HF undergoes self ionization to give a liquid that contains :

Options :

1. $[H_2F]^{\ominus}$
2. $[HF_2]^{\ominus}$
3. H^{\oplus}
4. F^{\ominus}

Question Number : 88 Question Id : 5431075759 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which reagent would you use to convert 2-pyridone to 2-chloropyridine ?

Options :

1. $POCl_3$
2. PCl_3
3. CCl_4
4. HCl

Question Number : 89 Question Id : 5431075760 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

LPG (household cooking gas) is mainly a mixture of :

Options :

1. Acetylene + O_2
2. Methane + Ethane
3. Propane + Butane
4. Acetylene + H_2

Question Number : 90 Question Id : 5431075761 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

DDT is prepared by the reaction of chlorobenzene with (in the presence of conc.
 H_2SO_4) :

Options :

1. Chlorine
2. Chloroform
3. Chloral
4. Carbon tetrachloride

Section B Geology

Section Id :	54310767
Section Number :	3
Section type :	Online
Mandatory or Optional:	Optional
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	90
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number: 1
Sub-Section Id: 54310770
Question Shuffling Allowed : Yes

Question Number : 91 Question Id : 5431075762 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Exfoliation is a form of :

Options :

1. Chemical weathering
2. Biological weathering
3. Physical weathering
4. Mass wasting

Question Number : 92 Question Id : 5431075763 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The dripstones hanging from the top of the limestone caves are called :

Options :

1. Geodes
2. Stalactites
3. Stalagmites
4. Cave pillar

Question Number : 93 Question Id : 5431075764 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The average value of Poisson ratio is :

Options :

1. 0.50

2. 0.25
3. 0.75
4. 1.50

Question Number : 94 Question Id : 5431075765 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Intrusive igneous contacts are indicative of :

Options :

1. An angular unconformity
2. A disconformity
3. A blended unconformity
4. A non-conformity

Question Number : 95 Question Id : 5431075766 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Actinolite is typical mineral of :

Options :

1. Blue schist facies
2. Green schist facies
3. Amphibolite facies
4. Hb-Hornfelse facies

Question Number : 96 Question Id : 5431075767 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Prismatic habits are characteristics of :

Options :

1. Ionosilicate
2. Nesosilicate
3. Phyllosilicate
4. Metasilicate

Question Number : 97 Question Id : 5431075768 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Moh's scale of hardness is a/an :

Options :

1. Logarithmic scale
2. Arithmetic scale
3. Arbitrary scale
4. Geometric scale

Question Number : 98 Question Id : 5431075769 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Spinel is :

Options :

1. Mg-Al silicate
2. Mg-Al oxide
3. Mg, Fe, Al-silicate
4. Mg, Fe, Al-oxide

Question Number : 99 Question Id : 5431075770 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is an oxide of titanium and iron ?

Options :

1. Rutite
2. Ilmenite
3. Brookite
4. Anatase

Question Number : 100 Question Id : 5431075771 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Garnet crystallizes in :

Options :

1. Cubic system
2. Tetragonal system
3. Orthogonal system
4. Hexagonal system

Question Number : 101 Question Id : 5431075772 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following system has all closed form ?

Options :

1. Trigonal
2. Monoclinic
3. Cubic
4. Triclinic

Question Number : 102 Question Id : 5431075773 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following has three axes of 4-fold symmetry ?

Options :

1. Rutile
2. Gypsum
3. Barytes
4. Galena

Question Number : 103 Question Id : 5431075774 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ophitic texture is frequently found in :

Options :

1. Granite
2. Dunite
3. Dolerite
4. Syenite

Question Number : 104 Question Id : 5431075775 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is the glassy modification of acidic lava ?

Options :

1. Tektite
2. Tachylite
3. Obsidian
4. Limburgite

Question Number : 105 Question Id : 5431075776 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Match the following and choose the *correct* answer :

- | | |
|-----------------|---------------|
| A. Acidic | 1. Monzonite |
| B. Ultrabasic | 2. Gabbro |
| C. Intermediate | 3. Granite |
| D. Basic | 4. Peridotite |

Options :

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

Question Number : 106 Question Id : 5431075777 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Alternate deposition of fine and coarse grained sediments gives rise to :

Options :

1. Torrential bedding
2. Graded bedding
3. Cross bedding
4. Festoon bedding

Question Number : 107 Question Id : 5431075778 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A coarse grained biogenic limestone is termed as :

Options :

1. Biomicrite
2. Biosparite
3. Oomicrite
4. Oosparite

Question Number : 108 Question Id : 5431075779 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Petrographically the turbidite sequence may occur in :

Options :

1. Graywackes alone
2. Proto-quartzites alone
3. Graywackes, proto-quartzite and layered gabbros
4. Graywackes and proto-quartzite

Question Number : 109 Question Id : 5431075780 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Metamorphism involving the combined effect of uniform pressure and heat is described as :

Options :

1. Dynamothermal metamorphism
2. Contact metamorphism
3. Plutonic metamorphism
4. Cataclastic metamorphism

Question Number : 110 Question Id : 5431075781 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Minerals which develop their crystal form inspite of the resistance of a solid medium are described as :

Options :

1. Idioblastic
2. Xenoblastic
3. Granoblastic
4. Crystalloblastic

Question Number : 111 Question Id : 5431075782 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Match the following and choose the *correct* answer :

- | | |
|-----------------------|--------------|
| A. Sanidinite facies | 1. Chlorite |
| B. Blueschist facies | 2. Lawsonite |
| C. Greenschist facies | 3. Sandine |
| D. Zeolite facies | 4. Laumonite |

Options :

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

Question Number : 112 Question Id : 5431075783 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The best example of magnetic segregated ore is :

Options :

1. Iron deposits
2. Bauxite deposits
3. Phosphate deposits
4. Chromium deposits

Question Number : 113 Question Id : 5431075784 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Kudremukh in Karnataka is famous for :

Options :

1. Lead deposits
2. Magnetite deposits
3. Copper deposits
4. Ilmenite deposits

Question Number : 114 Question Id : 5431075785 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The study of trace fossil is known as :

Options :

1. Synecology
2. Ichthyology
3. Paleoecology
4. Ichnology

Question Number : 115 Question Id : 5431075786 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Graptolite belong to the class :

Options :

1. Actinozoa
2. Scyphozoa
3. Hydrozoa
4. Ctenophora

Question Number : 116 Question Id : 5431075787 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The body of trilobite is divided into :

Options :

1. Three parts
2. Two parts
3. Three parts by means of two furrows
4. Two parts by means of a furrow

Question Number : 117 Question Id : 5431075788 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Gastropods having conical shape and long acute spire are described as :

Options :

1. Turreted
2. Globular
3. Turbinate

4. Convolute

Question Number : 118 Question Id : 5431075789 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The correlation of Precambrian terrain is mostly based on :

Options :

1. Fossils
2. Lithology
3. Crustal upliftment
4. Eustatic changes

Question Number : 119 Question Id : 5431075790 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A community of interrelated organism inhabiting an area is described as :

Options :

1. Biocenose
2. Biotype
3. Thenotype
4. Thenatocoenose

Question Number : 120 Question Id : 5431075791 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is the oldest magnetic epoch ?

Options :

1. Gilbert reversed
2. Matuyama reversed

3. Brunhes normal
4. Gauss normal

Section B Life Science

Section Id :	54310768
Section Number :	4
Section type :	Online
Mandatory or Optional:	Optional
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	90
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	54310771
Question Shuffling Allowed :	Yes

Question Number : 121 Question Id : 5431075792 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which enzyme is known as molecular scissors ?

Options :

1. Ligase
2. Restriction endonuclease
3. Lipase
4. Polymerase

Question Number : 122 Question Id : 5431075793 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Primary precursor of I.A.A. is :

Options :

1. Tyrosine

2. Leucine
3. Tryptophan
4. Methionine

Question Number : 123 Question Id : 5431075794 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

During meiosis, crossing over takes place at :

Options :

1. Leptotene
2. Diplotene
3. Zygotene
4. Pachytene

Question Number : 124 Question Id : 5431075795 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Edible part of apple is :

Options :

1. Mesocarp
2. Endocarp
3. Thalamus
4. Aril

Question Number : 125 Question Id : 5431075796 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The first transgenic plant was :

Options :

1. Pea
2. Mustard
3. Cotton
4. Tobacco

Question Number : 126 Question Id : 5431075797 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is Sulphur containing amino acid ?

Options :

1. Glycine
2. Methionine
3. Aspartic acid
4. Asparagine

Question Number : 127 Question Id : 5431075798 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An inverted pyramid of Biomass can be found in :

Options :

1. Grassland Ecosystem
2. Marine Ecosystem
3. Forest Ecosystem
4. Tundra

Question Number : 128 Question Id : 5431075799 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Maiden hair fern is :

Options :

1. *Pteris*
2. *Adiantum*
3. *Lycopodium*
4. *Dryopteris*

Question Number : 129 Question Id : 5431075800 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The fruit of coconut is an example of :

Options :

1. Capsule
2. Nut
3. Nutlet
4. Drupe

Question Number : 130 Question Id : 5431075801 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Coffee plant belongs to the family :

Options :

1. Apocyanaceae
2. Brassicaceae
3. Rubiaceae
4. Solanaceae

Question Number : 131 Question Id : 5431075802 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Plant part used for extraction of Opium from *Papaver somniferum* is :

Options :

1. Unripe capsule
2. Ripe capsule
3. Mature leaves
4. Mature roots

Question Number : 132 Question Id : 5431075803 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Nitrogen fixation in *Alnus* roots is due to the presence of :

Options :

1. *Azotobacter*
2. *Clostridium*
3. *Rhizobium*
4. *Frankia*

Question Number : 133 Question Id : 5431075804 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Saffron is obtained from :

Options :

1. *Cocos nucifera*
2. *Centella asiatica*
3. *Crocus sativus*
4. *Foeniculum vulgare*

Question Number : 134 Question Id : 5431075805 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Columella is found in the Sporangium of :

Options :

1. *Rhizopus*
2. *Spirogyra*
3. *Ulothrix*
4. *Phytophthora*

Question Number : 135 Question Id : 5431075806 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following enzymes is thermostable ?

Options :

1. ATP synthetase
2. Peroxidase
3. Taq polymerase
4. Lipase

Question Number : 136 Question Id : 5431075807 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which phase of cell cycle DNA becomes 4C from 2C ?

Options :

1. S
2. G1
3. Metaphase

4. Anaphase

Question Number : 137 Question Id : 5431075808 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Acrosomal vesicle in a mature sperm is derived from :

Options :

1. Endoplasmic reticulum
2. Golgi complex
3. Peroxisome
4. Mitochondria

Question Number : 138 Question Id : 5431075809 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If a sample of DNA is found to have the base composition (mole ratios) of adenine, 40; thymine, 22; guanine, 21; and cytosine 17, which of the following conclusions will be most appropriate ?

Options :

1. The given DNA is a double stranded circular molecule
2. It is a linear double stranded molecule
3. It is a single stranded molecule
4. It has high melting point

Question Number : 139 Question Id : 5431075810 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Circadian rhythm in our body is regulated by :

Options :

1. TSH

2. Melatonin
3. Prostaglandins
4. ADH

Question Number : 140 Question Id : 5431075811 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Prokaryotic genetic system has :

Options :

1. DNA but no histones
2. Both DNA and histones
3. Neither DNA nor histones
4. Either DNA or histones

Question Number : 141 Question Id : 5431075812 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Lampbrush chromosomes are seen in :

Options :

1. Prophase
2. Mitotic metaphase
3. Mitosis
4. Meiotic prophase

Question Number : 142 Question Id : 5431075813 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Parental care by males is found in :

Options :

1. *Hippocampus*
2. *Labeo*
3. *Anabas*
4. *Clarias*

Question Number : 143 Question Id : 5431075814 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Tri-peptide consist of :

Options :

1. 3 amino acids and 3 peptide bonds
2. 2 amino acids and 3 peptide bonds
3. 3 amino acids and 2 peptide bonds
4. 3 amino acids and 4 peptide bonds

Question Number : 144 Question Id : 5431075815 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is complementary sequence of ATGCAATGCT ?

Options :

1. TACGTTACGA
2. AGCATTGCAT
3. ATGCAATGCT
4. GCAATGCTAA

Question Number : 145 Question Id : 5431075816 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following silk types is produced by the moth *Philosamia ricini* whose larvae feed on castor leaves in Assam :

Options :

1. Tasar silk
2. Muga silk
3. Eri silk
4. Bombyx silk

Question Number : 146 Question Id : 5431075817 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The arrangement of microtubules in eukaryotic flagella is referred to as :

Options :

1. Undulating
2. Basal
3. 9 + 2
4. Ciliary

Question Number : 147 Question Id : 5431075818 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The function of cristae in a mitochondria is :

Options :

1. Carbon assimilation
2. Electron transport and ATP synthesis
3. Intake of O_2
4. Elimination of CO_2

Question Number : 148 Question Id : 5431075819 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The body tissue that consists largely of material located outside of cells is :

Options :

1. Extra cellular matrix
2. Epithelial tissue
3. Skeletal muscle
4. Smooth muscle

Question Number : 149 Question Id : 5431075820 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Histamine secreting cells are found in :

Options :

1. Connective tissue
2. Lungs
3. Muscular tissue
4. Nervous tissue

Question Number : 150 Question Id : 5431075821 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following receptor types is *not* a membrane receptor ?

Options :

1. Channel-linked receptor
2. Steroid-hormone receptor

3. Enzymatic receptor
4. G-protein coupled receptor

Section B Physics

Section Id :	54310769
Section Number :	5
Section type :	Online
Mandatory or Optional:	Optional
Number of Questions:	30
Number of Questions to be attempted:	30
Section Marks:	90
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	54310772
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 5431075822 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In elastic collision, kinetic energy is :

Options :

1. conserved
2. not conserved
3. increases
4. decreases

Question Number : 152 Question Id : 5431075823 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The viscosity of an oil decreases when temperature :

Options :

1. is constant

2. decreases
3. increases
4. 100°C

Question Number : 153 Question Id : 5431075824 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Oscillations are damped due to presence of :

Options :

1. Linear motion
2. Frictional force
3. Restoring force
4. Mechanical force

Question Number : 154 Question Id : 5431075825 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Einstein proposed the general theory of relativity in the year :

Options :

1. 1890
2. 1900
3. 1910
4. 1916

Question Number : 155 Question Id : 5431075826 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following frame of reference, the acceleration of the particles is zero in the absence of applied force ?

Options :

1. Inertial
2. Non-inertial
3. Cartesian
4. Non-Cartesian

Question Number : 156 Question Id : 5431075827 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

On increasing number density for a gas in a vessel, mean free path of a gas :

Options :

1. decreases
2. increases
3. remains constant
4. becomes double

Question Number : 157 Question Id : 5431075828 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If different ideal gases are at the same temperature, pressure and have same volume, then all gases have same :

Options :

1. density
2. number of molecules
3. most probable speed

4. internal energy per mole

Question Number : 158 Question Id : 5431075829 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following laws of thermodynamics defines entropy ?

Options :

1. Zeroth law
2. First law
3. Second law
4. Third law

Question Number : 159 Question Id : 5431075830 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a Carnot engine, when heat is absorbed from the source, temperature of source :

Options :

1. increases
2. decreases
3. remains constant
4. can not say

Question Number : 160 Question Id : 5431075831 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Temperature is a measure of :

Options :

1. Heat possessed by a body
2. Hotness or coldness
3. Potential energy
4. Thermal energy

Question Number : 161 Question Id : 5431075832 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In Wien's displacement law, the value of proportionality constant or Wien's displacement constant is equal to :

Options :

1. $2.897 \times 10^{-3} \text{ mK}$
2. $3.897 \times 10^{-3} \text{ mK}$
3. $4.255 \times 10^{-3} \text{ mK}$
4. $5.255 \times 10^{-3} \text{ mK}$

Question Number : 162 Question Id : 5431075833 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following sources gives best monochromatic light ?

Options :

1. a candle
2. a bulb
3. a mercury tube
4. a laser

Question Number : 163 Question Id : 5431075834 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Lloyd's mirror experiment establishes that light consists of :

Options :

1. particles
2. waves
3. neither particles nor waves
4. both particles and waves

Question Number : 164 Question Id : 5431075835 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Soap bubbles appear coloured due to the phenomenon of :

Options :

1. Interference
2. Diffraction
3. Dispersion
4. Reflection

Question Number : 165 Question Id : 5431075836 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is conserved when light waves interfere ?

Options :

1. Intensity
2. Amplitude
3. Energy

4. Momentum

Question Number : 166 Question Id : 5431075837 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In order to increase the resolving power of a telescope, it is necessary to :

Options :

1. increase the diameter of eye-piece
2. decrease the diameter of eye-piece
3. increase the diameter of objective
4. decrease the diameter of objective

Question Number : 167 Question Id : 5431075838 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

For producing a broad central maximum by diffraction from a single slit :

Options :

1. slit must be narrow
2. slit must be broad
3. source must be narrow
4. source must be broad

Question Number : 168 Question Id : 5431075839 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the light is polarized by reflection then the angle between reflected and refracted light is :

Options :

1. π

2. $\pi/2$
3. 2π
4. $\pi/4$

Question Number : 169 Question Id : 5431075840 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Magnetic lines of force :

Options :

1. can not intersect at all
2. intersect at the neutral point
3. intersect with in the magnet
4. intersect at infinity

Question Number : 170 Question Id : 5431075841 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The susceptibility of a diamagnetic substance :

Options :

1. increases with temperature
2. decreases with temperature
3. does not vary with temperature
4. first decreases and then increases with increase in temperature

Question Number : 171 Question Id : 5431075842 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the value of capacitance (C) in a series LCR circuit is decreased, the resonant frequency :

Options :

1. Not affected
2. Increases
3. Is reduced to zero
4. Decreases

Question Number : 172 Question Id : 5431075843 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a semiconductor, the energy gap between valance band and conduction band is nearly :

Options :

1. zero
2. 1 eV
3. 5 eV
4. 15 eV

Question Number : 173 Question Id : 5431075844 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Depletion region is the zone which contains :

Options :

1. holes only
2. electrons only
3. both electrons and holes
4. neither electrons nor holes

Question Number : 174 Question Id : 5431075845 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A load line is a graph between :

Options :

1. I_C and V_{CC}
2. I_E and V_{EE}
3. I_C and V_{CE}
4. I_C and V_{BE}

Question Number : 175 Question Id : 5431075846 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Colour of light emitted by LED depends on :

Options :

1. its forward bias
2. its reverse bias
3. forward current
4. semiconductor material

Question Number : 176 Question Id : 5431075847 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The process of changing a weak signal, without changing its shape, into strong one is known as :

Options :

1. biasing
2. rectification
3. modulation

4. amplification

Question Number : 177 Question Id : 5431075848 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The relation between β and α of a transistor is :

Options :

1. $\beta = \frac{\alpha}{1 + \alpha}$

2. $\beta = \frac{1 + \alpha}{\alpha}$

3. $\beta = \frac{\alpha}{1 - \alpha}$

4. $\beta = \frac{1 - \alpha}{\alpha}$

Question Number : 178 Question Id : 5431075849 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Zener breakdown takes place if :

Options :

1. doped impurity is low

2. doped impurity is high

3. less impurity in n-type

4. less impurity in p-type

Question Number : 179 Question Id : 5431075850 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The structure of solids is investigated by using :

Options :

1. cosmic rays
2. γ -rays
3. infra-red radiation
4. X-rays

Question Number : 180 Question Id : 5431075851 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Davission and Germer experiment relates to :

Options :

1. Interference
2. Polarization
3. Electron diffraction
4. Phosphorescence