

# National Testing Agency

**Question Paper Name:** Geology Geochemistry 09th November 2019 Shift 2  
**Subject Name:** Geology Geochemistry  
**Creation Date:** 2019-11-09 18:01:02  
**Duration:** 180  
**Total Marks:** 80  
**Display Marks:** Yes

## Geology Geochemistry

**Group Number :** 1  
**Group Id :** 709597133  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 80

## Geology Geochemistry

**Section Id :** 709597136  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 80  
**Number of Questions to be attempted:** 80  
**Section Marks:** 80  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 709597156  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 70959713182 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The purpose of study of structural geology is to understand \_\_\_\_\_.

- (a) The texture of rock
- (b) The composition of rock
- (c) The structural elements of rock
- (d) Properties of rock

**Question Number : 2 Question Id : 70959713183 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The purpose of study of Environmental geology is to understand \_\_\_\_\_.

- a. Origin of earth
- b. Origin of solar system
- c. The biosphere, lithosphere, and hydrosphere
- d. None of them

**Question Number : 3 Question Id : 70959713184 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Oceanography is \_\_\_\_\_.

- a) Study about underground water
- b) Study of behavior of sea and nature of waves
- c) Study of fossil in all forms of life of plants and animals
- d) None of the above

**Question Number : 4 Question Id : 70959713185 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Paleontology is \_\_\_\_\_.

- a) Study about underground water
- b) Study of behavior of sea and nature of waves
- c) Study of fossil in all forms of life of plants and animals
- d) None of the above

**Question Number : 5 Question Id : 70959713186 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Geologists are responsible for \_\_\_\_\_.

- a) Exploring for minerals
- b) Finding groundwater supplies
- c) Building foundations for engineering projects
- d) All of the above

**Question Number : 6 Question Id : 70959713187 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A Mining geologist

- a) Tests ore blending and block modeling using computer programs
- b) Facilitates grade control programmes
- c) Liaises with engineering and management
- d) All of the above

**Question Number : 7 Question Id : 70959713188 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Petroleum geologist does not:

- a) Analyses soil data
- b) Collects geological information on site
- c) Interprets geological data
- d) Plans and coordinates drilling

Question Number : 8 Question Id : 70959713189 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Evaporites are \_\_\_\_\_ sedimentary rocks

- a) bio-chemical
- b) chemical
- c) clastic
- d) polymer

Question Number : 9 Question Id : 70959713190 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Metamorphism adjacent to intrusions is called:

- a) regional
- b) cataclastic
- c) thermal
- d) prograde metamorphism

Question Number : 10 Question Id : 70959713191 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Metamorphism is mainly due to the operation of:

- a) Pressure only
- b) temperature only
- c) fluids only
- d) P, T & fluids

Question Number : 11 Question Id : 70959713192 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dykes are \_\_\_\_\_ type of igneous bodies

- a) Discordant
- b) Concordant
- c) multiple
- d) complex

Question Number : 12 Question Id : 70959713193 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Porphyritic rocks have \_\_\_\_\_ grain size distribution

- a) unimodal
- b) bimodal
- c) multimodal
- d) complex modal

Question Number : 13 Question Id : 70959713194 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the composition of hypersthene?

- (a)  $\text{FeMgSi}_2\text{O}_6$
- (b)  $\text{Mg}_2\text{Si}_2\text{O}_6$
- (c)  $\text{CaMgSi}_2\text{O}_6$
- (d)  $\text{CaFeSi}_2\text{O}_6$

Question Number : 14 Question Id : 70959713195 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Wollastonite  $\text{CaSiO}_3$  is an example of :

- (a) Pyroxenoid
- (b) Pyroxene
- (c) Amphibole
- (d) Nesosilicate

Question Number : 15 Question Id : 70959713196 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phyllosilicate, The ratio of Si:O is:

- (a) 2:5
- (b) 4:11
- (c) 1:4
- (d) 1:3

Question Number : 16 Question Id : 70959713197 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phyllosilicate (1A type) is an example of \_\_\_\_\_.

- (a) Chlorite type
- (b) Mica type
- (c) Kaolinite type
- (d) None of the above

Question Number : 17 Question Id : 70959713198 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Earth's deep interior is inaccessible and consequently most of our understanding is based on \_\_\_\_\_ inferences.

- a) Indirect
- b) Direct
- c) Transit
- d) None of the above

Question Number : 18 Question Id : 70959713199 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The observations show that the density of the Earth must increase due to two factors: the existence of dense \_\_\_\_\_-rich core and the increase in density due to hydrostatic compression within the earth.

- a) Copper
- b) Iron
- c) Nickel
- d) Tungsten

Question Number : 19 Question Id : 70959713200 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The vibrations of the Earth due to natural earthquakes or artificial explosions are recorded on:

- a) Angiograms
- b) Cardiograms
- c) Seismograms
- d) None of the above

Question Number : 20 Question Id : 70959713201 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Earth was formed in the solar nebula at approximately \_\_\_\_\_ billion years ago.

- a) 3.5
- b) 4.9
- c) 6.2
- d) 4.5

Question Number : 21 Question Id : 70959713202 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ringwood in ----- considered that upper mantle rocks or peridotites composed mainly of olivine and pyroxenes.

- a) 1979
- b) 1989
- c) 1969
- d) 1959

Question Number : 22 Question Id : 70959713203 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Knowledge of the Earth's interior is based on the reactions of:

- a) Seismic waves
- b) P waves
- c) S waves
- d) All the above

Question Number : 23 Question Id : 70959713204 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The primary effect of an earthquake is:

- a) Land slides
- b) Plate movement
- c) Ground motion
- d) None of the above

Question Number : 24 Question Id : 70959713205 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Except for the outer most \_\_\_\_\_, the interior of the Earth is inaccessible to direct observation.

- a) 10-12 km
- b) 12-14 km
- c) 20-24 km
- d) 34-36 km

Question Number : 25 Question Id : 70959713206 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The diamond bearing rock, kimberlite, in South African mines, may have come up directly through the crust from the upper mantle at a depth of perhaps \_\_\_\_\_ km.

- a) 15 to 30
- b) 35 to 40
- c) 25 to 45
- d) 12 to 15

Question Number : 26 Question Id : 70959713207 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The layer structure of the earth is explained by the study of :

- a) Palaeontology
- b) Seismology
- c) Ontology
- d) Cosmology

Question Number : 27 Question Id : 70959713208 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Mohorovicic discontinuity occurs at depths of 30-40 km below the continents, 5-6 km below the oceans and \_\_\_\_\_ below the mountains.

- a) 60-70 km
- b) 50-60 km
- c) 70-80 km
- d) 90-110 km

Question Number : 28 Question Id : 70959713209 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Earth is a sphere of radius \_\_\_\_\_ km.

- a) 6545
- b) 6371
- c) 6731
- d) 6658

Question Number : 29 Question Id : 70959713210 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Oceanic crust is uniform in thickness and composition. It is \_\_\_\_\_ km thick and is mafic in composition.

- a) 5-6
- b) 6-8
- c) 4-6
- d) 2-4

Question Number : 30 Question Id : 70959713211 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The mantle is over 2900 km thick and makes up over \_\_\_\_\_ of the volume of the Earth.

- a) 20%
- b) 80%
- c) 60%
- d) 40%

Question Number : 31 Question Id : 70959713212 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Typical elevation of land surface occurs within a range of:

- (A) 0 – 20 km above MSL
- (B) 0 – 1 km above MSL
- (C) 0 – 10 km above MSL
- (D) 0 – 5 k m above MSL

Question Number : 32 Question Id : 70959713213 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Approximately 50% (by weight) of the Earth's crust is made up of which element?

- (A) aluminium
- (B) Iron
- (C) Oxygen
- (D) Silicon

Question Number : 33 Question Id : 70959713214 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Mohorovicic discontinuity coincides:

- (A) Mantle-core boundary
- (B) Crust-mantle boundary
- (C) Lithosphere-mantle boundary
- (D) Inner core-outer core boundary

Question Number : 34 Question Id : 70959713215 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The moment of inertia ratio of 0.4 for a planet indicates:

- (A) There is a solid core
- (B) There is a core
- (C) There is no core
- (D) There is a liquid outer core.

Question Number : 35 Question Id : 70959713216 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Earth's nickel-iron core is postulated from:

- (A) The Moon
- (B) The CI carbonaceous chondrite meteorite
- (C) The stony meteorite
- (D) None

Question Number : 36 Question Id : 70959713217 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following statement is true?

- (A) The Moon has the size similar to the Earth's core
- (B) The inner core has the temperature similar to that of the surface of the Sun, and size comparable to the Moon
- (C) The temperature of the outer core is similar to that of the surface of the Sun
- (D) The core occupies 30% of the volume of the Earth, and contributes 16% of the mass of the Earth

Question Number : 37 Question Id : 70959713218 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



Most abundant mineral of the earth's crust is:

- a) quartz
- b) clays
- c) orthoclase
- d) plagioclase

Question Number : 38 Question Id : 70959713219 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which minerals is NOT in the list of most abundant minerals of the earth's crust?

- a) amphibole
- b) pyroxenes
- c) garnet
- d) mica

Question Number : 39 Question Id : 70959713220 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Beryl is a:

- a) sorosilicate
- b) phyllosilicate
- c) tectosilicate
- d) none of these

Question Number : 40 Question Id : 70959713221 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the silica is considered a rock forming mineral?

- a) opal
- b) jasper
- c) quartz
- d) Agate

Question Number : 41 Question Id : 70959713222 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which element does not figure in the list of ten most abundant elements of the earth's crust?

- a) Si
- b) Ca,
- c) U
- d) Fe

Question Number : 42 Question Id : 70959713223 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The element which does not form its own mineral independently

- a) Si
- b) Cu
- c) Au,
- d) Hg

Question Number : 43 Question Id : 70959713224 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Composition of mineral gypsum is represented by the formula,

- a) CaO SO<sub>4</sub>
- b) CaSO<sub>4</sub>.2H<sub>2</sub>O
- c) CaSO<sub>4</sub>
- d) CaSO<sub>4</sub>.H<sub>2</sub>O

Question Number : 44 Question Id : 70959713225 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fundamental component of silicates is,

- a) SiO<sub>2</sub>
- b) Si<sub>2</sub>O<sub>5</sub>
- c) SiO<sub>4</sub>
- d) Si O<sub>6</sub> group

Question Number : 45 Question Id : 70959713226 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is most abundant element on earth?

- a. Mg
- b. Fe
- c. O
- d. Si

Question Number : 46 Question Id : 70959713227 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following element is a noble gas?

- a. Ra
- b. Rn
- c. K
- d. Re

Question Number : 47 Question Id : 70959713228 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Actinide series extends from atomic number.

- a. 57 through 71
- b. 58 through 90
- c. 90 through 103
- d. 89 through 100

Question Number : 48 Question Id : 70959713229 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is not a REE?.

- a. Ga
- b. Eu
- c. Sm
- d. Yb

Question Number : 49 Question Id : 70959713230 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is the heaviest metal?

- a. Ir
- b. Os
- c. Pt
- d. Au

Question Number : 50 Question Id : 70959713231 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the effect of atomic number on ionic radii in same column of periodic table?

- a. Ionic radii decrease with increase of atomic number
- b. Ionic radii increase with increase atomic number
- c. Ionic radii remains constant with increase atomic number
- d. None of the above

Question Number : 51 Question Id : 70959713232 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a common property of metals?

- a. High electrical conductivity
- b. Brittleness
- c. High melting point
- d. Malleability

Question Number : 52 Question Id : 70959713233 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following element is metalloids?

- a. Sn
- b. C
- c. W
- d. Sb

Question Number : 53 Question Id : 70959713234 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lanthanide contraction is:

- a. Elements in lanthanide series have low atomic number
- b. Elements in lanthanide series have low coordination number
- c. Elements in lanthanide series show decrease in ionic radii with increase in atomic number
- d. Elements in lanthanide series have constant ionic radii

Question Number : 54 Question Id : 70959713235 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the given statement is false?

- a. Inert gases have maximum values of ionization potential
- b. Metals are electron donors
- c. Ionic radii of cation decrease with increase in charge
- d. Ionic radii of anion is smaller than neutral atom

Question Number : 55 Question Id : 70959713236 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The measure of the ability of an atom in a crystal structure to gain or to lose electron to its outer shell is known as:

- a. Ionization potential
- b. Electronegativity
- c. Bond strength
- d. Oxidation state

Question Number : 56 Question Id : 70959713237 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the mineral property is not a function of intensity of bonds?

- a. Hardness
- b. Lustre
- c. Conductivity
- d. Cleavage

Question Number : 57 Question Id : 70959713238 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of bond does not involve valance electrons?

- a. Metallic bond
- b. Ionic bond
- c. Van der Waals bond
- d. Covalent bod

Question Number : 58 Question Id : 70959713239 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Relation between bond strength and melting Pont is

- a. Melting point in inversely proportional to bond strength
- b. Melting point is proportional to bond strength
- c. Melting point remains constant
- d. None of the above

Question Number : 59 Question Id : 70959713240 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which type of bond have highest bond strength?

- a. Ionic bond
- b. Metallic bond
- c. Hydrogen bond
- d. Covalent bond

Question Number : 60 Question Id : 70959713241 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Type of bond in Diamond is

- a. Ionic
- b. Covalent
- c. Van der Walls
- d. Metallic

Question Number : 61 Question Id : 70959713242 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Fluorite shows type of bond

- a. Ionic
- b. Covalent
- c. Van der Walls
- d. Metallic

Question Number : 62 Question Id : 70959713243 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Silicate structure have

- a. Hybrid nature of Covalent and ionic bonds
- b. Hybrid nature of Covalent and metallic bonds
- c. Hybrid nature of ionic and metallic bonds
- d. None of the above

Question Number : 63 Question Id : 70959713244 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The basis of covalent bond is

- a. Attractive force between charged nuclei and electron cloud
- b. Residual charge
- c. Electron sharing
- d. None of the above

Question Number : 64 Question Id : 70959713245 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When two or more electrons of an atom are transferred to another atom to achieve inert gas configuration so resulting bond is

- a. Ionic bond
- b. Metallic bond
- c. Hydrogen bond
- d. Covalent bond

Question Number : 65 Question Id : 70959713246 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is PGE group member?

- a. Au
- b. Ag
- c. Ru
- d. Both a and b

Question Number : 66 Question Id : 70959713247 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lightest metal is

- a. Li
- b. Al
- c. Mg
- d. Fe

Question Number : 67 Question Id : 70959713248 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cleavage in mica indicate which type of bonding

- a. Ionic
- b. Covalent
- c. Van der Waals
- d. Metallic

Question Number : 68 Question Id : 70959713249 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Two water molecule have

- a. Hydrogen bond
- b. Ionic bond
- c. Van der Waals bond
- d. Covalent bond

Question Number : 69 Question Id : 70959713250 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which statement is true for compounds having ionic bonds?

- a. Good conductors in solid state
- b. Low melting point
- c. High bond strength
- d. Low symmetry

Question Number : 70 Question Id : 70959713251 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Electrostatic bond is also known as

- a. Hydrogen bond
- b. Covalent bond
- c. Ionic bond
- d. Metallic bond

Question Number : 71 Question Id : 70959713252 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which cation have shortest ionic radii

- a.  $\text{Be}^{2+}$
- b.  $\text{Li}^+$
- c.  $\text{Ca}^{2+}$
- d.  $\text{K}^+$

Question Number : 72 Question Id : 70959713253 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Bond angle in water molecule

- a.  $104^\circ$
- b.  $100^\circ$
- c.  $112^\circ$
- d.  $95^\circ$

Question Number : 73 Question Id : 70959713254 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hardness in ionic bonded compound increase with

- a. Increase with interionic distance
- b. Decrease with interionic distance
- c. Decrease in charge of coordinated ion
- d. None of the above

Question Number : 74 Question Id : 70959713255 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ratio of charge and radius in ion is Known as

- a. Electronegativity
- b. Ionic Potential
- c. Bond strength
- d. Coordination number

Question Number : 75 Question Id : 70959713256 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chemistry of the crystals is best understood by the nature

- a) Chemical bonding
- b) Physical bonding
- c) Physico-chemical bonding
- d) Physic-optical bonding

Question Number : 76 Question Id : 70959713257 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

According to octet rule, an atom needs to have ----- number of electrons in it's outermost shell.

- a) Eight
- b) Six
- c) Two
- d) None

Question Number : 77 Question Id : 70959713258 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



According to duet rule atoms to be stable needs to have ----- number of valence electrons

- a) Eight
- b) Six
- c) Two
- d) One

**Question Number : 78 Question Id : 70959713259 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Atoms with large difference in ----- results in Ionic bond

- a) electronegativity
- b) electropositivity
- c) electric potential
- d) None of the above

**Question Number : 79 Question Id : 70959713260 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Ionically bonded compounds have

- a) low melting & low boiling points
- b) High melting & high boiling points
- c) High melting & low melting points
- d) Low melting & high boiling points

**Question Number : 80 Question Id : 70959713261 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Covalent compounds have

- a) Low melting & low boiling points
- b) High melting & high boiling points
- c) High melting & low melting points
- d) Low melting & high boiling points