

National Testing Agency

Question Paper Name: Geology Petrology 10th November 2019 Shift 2
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Geology Petrology

Group Number : 1
Group Id : 709597134
Group Maximum Duration : 0
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Break time: 0
Group Marks: 80

Geology Petrology

Section Id : 709597137
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: 709597157
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 70959713262 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 reaction Fe (in garnet) + Mg (in biotite) = Mg (in garnet) + Fe (in biotite) is a:

- (a) Net transfer reaction
- (b) Exchange reaction
- (c) a & b both
- (d) None of the above

Question Number : 2 Question Id : 70959713263 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pyroxenite is a monomineralic rock having composition.

- (a) More than 90% olivine
- (b) More than 90% plagioclase
- (c) More than 90% pyroxenes
- (d) More than 90% Quartz

Question Number : 3 Question Id : 70959713264 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 $Tremolite + Calcite + Quartz = Diopside + H_2O + CO_2$ is a

- (a) Net transfer reaction
- (b) Exchange reaction
- (c) Mixed volatile reactions
- (d) All of the above

Question Number : 4 Question Id : 70959713265 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rocks whose crystals cannot be identified even with the microscope are known as:

- (a) Holohyaline
- (b) Microcrystalline
- (c) Cryptocrystalline
- (d) All of these

Question Number : 5 Question Id : 70959713266 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 a rock is composed of smaller crystals enclosed by larger ones, the texture is defined as:

- (a) Porphyritic texture
- (b) Vitrophyric texture
- (c) Poikilitic texture
- (d) Felsophyric texture

Question Number : 6 Question Id : 70959713267 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 reaction " $Anorthite = Grossular + Kyanite + Quartz$ " is a:

- (a) Net transfer reaction
- (b) Exchange reaction
- (c) a & b both
- (d) None of the above

Question Number : 7 Question Id : 70959713268 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

During Concretion Principle

- (a) The growth of large porphyroblasts and crystalline aggregates
- (b) Development of Paleosome
- (c) Development of Neosome
- (d) Development of Leucosome

Question Number : 8 Question Id : 70959713269 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

During Secretion Principle

- (a) Cavities, open cracks, or fissures in the rock are formed by shear and tear
- (b) The growth of large porphyroblasts and crystalline aggregates
- (c) Alternation of rock take place
- (d) None of the above

Question Number : 9 Question Id : 70959713270 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 degree of freedom at eutectic point?

- (a) 0
- (b) 2
- (c) 1
- (d) 3

Question Number : 10 Question Id : 70959713271 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 temperature range of green schist facies?

- (a) 500/550 to 700/750°C
- (b) 400/450 to 500/550°C
- (c) 700/750 to 900/950°C
- (d) 300/350 to 400/450°C

Question Number : 11 Question Id : 70959713272 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lithification is process of _____.

- (a) Rolling, sliding, and hopping
- (b) Transported by the action of wind
- (c) Changing of sediments into rock
- (d) None of these

Question Number : 12 Question Id : 70959713273 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dyke is a _____ type of igneous body.

- (a) Concordant
- (b) Discordant
- (c) Regular
- (d) None of above

Question Number : 13 Question Id : 70959713274 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Tremolite + Calcite + Quartz = ----- + CO₂ + H₂O

- (a) Pyrophyllite
- (b) Almandine
- (c) Andalusite
- (d) Diopside

Question Number : 14 Question Id : 70959713275 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 mineral is commonly present in sanidinite facies?

- (a) Wollastonite
- (b) Larnite
- (c) Sanidine
- (d) All of the above

Question Number : 15 Question Id : 70959713276 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a rock is composed of more than 60 % dark mineral, the rock may be classed as:

- (a) Leucocratic
- (b) Mesocratic
- (c) Melanocratic
- (d) Ultrabasic

Question Number : 16 Question Id : 70959713277 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 volcanic rocks contain the highest percentage of silica?

- (a) Basalt
- (b) Rhyolite
- (c) Andesite
- (d) Trachyte

Question Number : 17 Question Id : 70959713278 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a continuous reaction series, there is a continuous change in:

- (a) Crystal structure
- (b) Composition
- (c) A nd b both
- (d) None of the above

Question Number : 18 Question Id : 70959713279 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Prophyritic texture is frequently found in:

- (a) Volcanic rocks
- (b) Hypabyssal rock
- (c) a and b both
- (d) None of the above

Question Number : 19 Question Id : 70959713280 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 ophitic texture consists of:

- (a) Laths of augite enclosed in the crystals of plagioclase
- (b) Laths of plagioclase enclosed in the crystals of augite
- (c) a and b both
- (d) None of the above

Question Number : 20 Question Id : 70959713281 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 rocks syenite is characterised by the predominance of:

- (a) Alkali Feldspar
- (b) Quartz
- (c) Plagioclase
- (d) Nepheline

Question Number : 21 Question Id : 70959713282 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Norite is a gabbroic rocks in which:

- (a) $OPX > CPX$
- (b) $OPX < CPX$
- (c) $OPX = CPX$
- (d) OPX is absent

Question Number : 22 Question Id : 70959713283 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 lava of peridotitic composition are described as:

- (a) Komatiites
- (b) Tholeiites
- (c) Tachylites
- (d) Phonolites

Question Number : 23 Question Id : 70959713284 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 Komatiites have a high concentration of:

- (a) Mg
- (b) Fe
- (c) Mn
- (d) Ca

Question Number : 24 Question Id : 70959713285 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Over saturated rocks are those which contains:

- (a) Saturated minerals only
- (b) Saturated and undersaturated minerals
- (c) Saturated minerals and quartz
- (d) None of the above

Question Number : 25 Question Id : 70959713286 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 plagioclase feldspar that is characteristic of anorthosites is :

- (a) Labradorite
- (b) Albite
- (c) Oligoclase
- (d) Bytownite

Question Number : 26 Question Id : 70959713287 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Monomineralic rocks are generally formed in the:

- (a) Shallow zones of the earth
- (b) Intermediate zone of earth
- (c) Deepar zones of the earth
- (d) Any of the above

Question Number : 27 Question Id : 70959713288 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Quartz is a diagnostic mineral in:

- (a) Oversaturated rocks
- (b) Saturated rocks
- (c) Undersaturated rocks
- (d) None of the above

Question Number : 28 Question Id : 70959713289 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Textures in which the fragmental characteristics are nnot clearly visible are described

as:

- (a) Non- clastic
- (b) Clastic
- (c) a and b both
- (d) Epiclastic

Question Number : 29 Question Id : 70959713290 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Residual deposits are:

- (a) Well sorted and rounded
- (b) Unsorted and angular
- (c) Ill sorted and subrounded
- (d) None of the above

Question Number : 30 Question Id : 70959713291 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arkose is derived from the disintegration of:

- (a) Gabbro
- (b) Granite
- (c) Marble
- (d) Ultramafic rocks

Question Number : 31 Question Id : 70959713292 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/are characteristic of the process of metamorphism?

- (a) Under normal conditions the bulk chemistry of the rocks remain unchanged
- (b) There is no large scale liquid at any given time
- (c) There is no order of crystallization
- (d) All of the above

Question Number : 32 Question Id : 70959713293 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 involving substantial addition or removal of materials is generally termed as:

- (a) Contact metamorphism
- (b) Autometamorphism
- (c) Metasomatism
- (d) Regional Metamorphism

Question Number : 33 Question Id : 70959713294 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 uniform or hydrostatic pressure acts on a body, its:

- (a) Volume decreases
- (b) Specific gravity decreases
- (c) Volume decreases but specific gravity increases
- (d) Volume increases but specific gravity decreases

Question Number : 34 Question Id : 70959713295 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 rocks are completely unfoliated?

- (a) Slate
- (b) Schists
- (c) Phyllite
- (d) Hornfels

Question Number : 35 Question Id : 70959713296 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 minerals galucophane and jadeite are indicative of:

- (a) High pressure and low temperature
- (b) Low pressure and high temperature
- (c) High pressure and high temperature
- (d) Low pressure and low temperature

Question Number : 36 Question Id : 70959713297 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 metamorphic facies that represent a transition between diagenesis and regional metamorphism is:

- (a) Zeolite facies
- (b) Green schist facies
- (c) Sanidinite facies
- (d) Hornblende hornfels facies

Question Number : 37 Question Id : 70959713298 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 mineral assemblage Larnite – Merwinite – Spurrite is typical of:

- (a) Sanidinite facies
- (b) Zeolite facies
- (c) Granulite facies
- (d) Glaucophane schist facies

Question Number : 38 Question Id : 70959713299 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hydroxyl bearing minerals are essentially absent in the rocks belonging to:

- (a) Granulite facies
- (b) Hornfels facies
- (c) Zeolite facies
- (d) Green schist facies

Question Number : 39 Question Id : 70959713300 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Enderbites are a type of charnockites of:

- (a) Acidic composition
- (b) Basic composition
- (c) Ultrabasic composition
- (d) Any of the above

Question Number : 40 Question Id : 70959713301 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gneissic rocks that are metamorphosed of sediments are described as:

- (a) Orthogneiss
- (b) Augen gneiss
- (c) Paragneiss
- (d) None of the above

Question Number : 41 Question Id : 70959713302 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 mineral is commonly present in Pyroxene-granulite facies?

- (a) Hornblende
- (b) Anthophyllite
- (c) Tremolite
- (d) None of the above

Question Number : 42 Question Id : 70959713303 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Gedrite + quartz = ----- + cordierite + H₂O

- (a) Hypersthene
- (b) Almandine
- (c) Andalusite
- (d) Diopside

Question Number : 43 Question Id : 70959713304 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 : 44 Question Id : 70959713305 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If we move from olivine to biotite in discontinuous reaction series normally temperature

_____.

- (a) Increase
- (b) Decrease
- (c) Remain the same
- (d) None of the above

Question Number : 45 Question Id : 70959713306 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 may be a primitive magma?

- (a) Granite
- (b) Dacite
- (c) Picritic
- (d) Basalt

Question Number : 46 Question Id : 70959713307 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Olivine and silica react and change in to -----.

- (a) Hypersthene
- (b) Diopside
- (c) Epidote
- (d) None of the above

Question Number : 47 Question Id : 70959713308 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 angular rudaceous rocks are also called as _____.

- (a) Breccias
- (b) Arkoses
- (c) Shale's
- (d) Sand stones

Question Number : 48 Question Id : 70959713309 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 average grain size of argillaceous rocks is less than _____ mm.

- (a) 0.1
- (b) 0.2
- (c) 0.3
- (d) 0.4

Question Number : 49 Question Id : 70959713310 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mud cracks is an irregular fracture in a crudely _____ pattern formed.

- (a) Hexagonal
- (b) Polygonal
- (c) Triangle
- (d) Square

Question Number : 50 Question Id : 70959713311 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Omphacite – garnet – kyanite is a typical assemblage of

- (a) Eclogite facies
- (b) Amphibolite facies
- (c) Blue schist facies
- (d) Greenschist facies

Question Number : 51 Question Id : 70959713312 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Amphibolite facies divide in to how many zones/subfacies.

- (a) 2 zones
- (b) 3 zones
- (c) 3 zones
- (d) 4 zones

Question Number : 52 Question Id : 70959713313 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Talc = ----- + Quartz + H₂O

- (a)Pyrophyllite
- (b) Almandine
- (c) Andalusite
- (d) Mg-anthophyllite

Question Number : 53 Question Id : 70959713314 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Muscovite + Quartz = K-feldspar + ----- + H₂O

- (a) Sillimanite
- (b) Almandine
- (c) Andalusite
- (d) Mg-anthophyllite

Question Number : 54 Question Id : 70959713315 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Albite = ----- + Quartz

- (a) Jadeite
- (b) Almandine
- (c) Andalusite
- (d) Mg-anthophyllite

Question Number : 55 Question Id : 70959713316 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Talc = ----- + Quartz + H₂O

- (a) Pyrophyllite
- (b) Almandine
- (c) Andalusite
- (d) Mg-anthophyllite

Question Number : 56 Question Id : 70959713317 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Albite = ----- + Quartz

- (a) Jadeite
- (b) Almandine
- (c) Andalusite
- (d) Mg-anthophyllite

Question Number : 57 Question Id : 70959713318 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Silica in acid igneous rocks in general contain more than ____ of SiO₂

- (a) 63%
- (b) 30%
- (c) 90%
- (d) 45%

Question Number : 58 Question Id : 70959713319 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Complete the reaction: Pyrophyllite = _____ + SiO₂ + H₂O

- (a) Muscovite
- (b) Kaolinite
- (c) Kyanite
- (d) Quartz

Question Number : 59 Question Id : 70959713320 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 crust –mantle boundary is referred to as the _____.

- (a) Mohorovicic discontinuity
- (b) Lehman Seismic Discontinuity
- (c) Gutenberg Seismic Discontinuity
- (d) 670 km Seismic Discontinuity

Question Number : 60 Question Id : 70959713321 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 CaSiO₃ is an example of _____.

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

Question Number : 61 Question Id : 70959713322 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 (10 A⁰ type) is an example of _____.

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

Question Number : 62 Question Id : 70959713323 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Physical or chemical disintegration of the rocks is called _____.

- (a) Weathering
- (b) Erosion
- (c) Deposition
- (d) Evaporation

Question Number : 63 Question Id : 70959713324 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Orbicular texture is observed in _____.

- (a) Oolitic limestone
- (b) Volcanic rock
- (c) Granite
- (d) Dolerite

Question Number : 64 Question Id : 70959713325 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 ACF value of the Pyrope (Mg₃Al₂Si₃O₁₂) garnet is:

- (a) F=75; A=25 & C=0
- (b) F=0; A=25 & C=75
- (c) F=75; A=0 & C=25
- (d) F=50; A=25 & C=25

Question Number : 65 Question Id : 70959713326 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 mineral is commonly present in albite - epidote- hornfels facies?

- (a) Andalusite
- (b) Kyanite
- (c) Almandine garnet
- (d) Staurolite

Question Number : 66 Question Id : 70959713327 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ripples formed by water and wind differ in their:

- (a) Symmetry
- (b) Scale
- (c) Azimuth
- (d) Ripple index

Question Number : 67 Question Id : 70959713328 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cement in a detrital sedimentary rock is:

- (a) Pre-depositional
- (b) Post-depositional
- (c) Syn-depositional
- (d) All of the above

Question Number : 68 Question Id : 70959713329 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Spinifex texture usually observed in -----.

- (a) Komatiites
- (b) Spilites
- (c) Tholeiite
- (d) Picrites

Question Number : 69 Question Id : 70959713330 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 troctolite

- (a) Olivine + Plagioclase
- (b) Olivine + pyroxene
- (c) Olivine + biotite
- (d) Olivine + hornblende

Question Number : 70 Question Id : 70959713331 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lherzolite is a ----- rock?

- (a) Acid
- (b) Basic
- (c) Intermediate
- (d) Peridotite

Question Number : 71 Question Id : 70959713332 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct sequence of deformation and metamorphism:

- (a) Shale → Slate → Phyllite → Schist → Gneiss
- (b) Shale → Slate → Phyllite → Gneiss → Schist
- (c) Shale → Phyllite → Schist → Gneiss → Slate
- (d) Slate → Phyllite → Schist → Gneiss → Shale

Question Number : 72 Question Id : 70959713333 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 migmatite is a mixed rock in which:

- (a) An older metamorphic rock is mixed with younger granitic material
- (b) An older granitic rock is mixed with newly metamorphosed sediments
- (c) Fragments of igneous, sedimentary and metamorphic rocks are mixed together
- (d) All of the above

Question Number : 73 Question Id : 70959713334 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Metamorphic facies are defined by:

- (a) The condition of temperature and pressure
- (b) A single dominant rock type
- (c) Critical mineral assemblages
- (d) Peculiar textures and structures of the rock types

Question Number : 74 Question Id : 70959713335 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 metamorphic facies is characterized by maximum temperatures and minimum pressure?

- (a) Blueschist facies
- (b) Sanidinite facies
- (c) Hornblende hornfels facies
- (d) Greenschist facies

Question Number : 75 Question Id : 70959713336 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 environment between the highest and the lowest levels of spring tides is described as:

- (a) Littoral environment
- (b) Neritic environment
- (c) Continental shelf
- (d) Bathyal environment

Question Number : 76 Question Id : 70959713337 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Zircon and Quartz usually occur as:

- (a) Unaltered minerals
- (b) Altered minerals
- (c) Insoluble minerals
- (d) Soluble minerals

Question Number : 77 Question Id : 70959713338 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Graywackes can be distinguished from arkoses by:

- (a) The difference in their chemical composition
- (b) The greater silica content
- (c) The percentage of matrix and cement
- (d) The ratio of rock fragments to feldspar

Question Number : 78 Question Id : 70959713339 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 coarse sandstone with angular grains may be described as:

- (a) Grit
- (b) Arkose
- (c) Quartzite
- (d) All of the above

Question Number : 79 Question Id : 70959713340 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a seriate texture:

- (a) The phenocrysts and matrix are approximately equal in size
- (b) There is a complete range in grain size between the ground mass and phenocrysts
- (c) The ground mass is glassy
- (d) All of the above

Question Number : 80 Question Id : 70959713341 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Monomineralic rocks are generally formed in the:

- (a) Shallow zones of the earth
- (b) Deeper zone of the earth
- (c) Intermediate zone of the earth
- (d) At the surface of the earth