

National Testing Agency

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Petrology

Group Number : 1
Group Id : 41652935
Group Maximum Duration : 0
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Break time: 0
Group Marks: 80

Petrology

Section Id : 41652935
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: 41652936
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 4165292801 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

- The growth of large porphyroblasts and crystalline aggregates
- Development of Paleosome
- Development of Neosome
- Development of Leucosome

Question Number : 2 Question Id : 4165292802 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 : 3 Question Id : 4165292803 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 : 4 Question Id : 4165292804 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 : 5 Question Id : 4165292805 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 amphibolite facies?

- (a) Hornblende
- (b) Anthophyllite
- (c) Tremolite
- (d) All of the above

Question Number : 6 Question Id : 4165292806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hypersthene normally appears in the ----- facies.

- (a) Granulite facies
- (b) Kyanite zone
- (c) a & b both
- (d) Amphibolite facies

Question Number : 7 Question Id : 4165292807 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 amphibolite facies?

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

Question Number : 8 Question Id : 4165292808 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 composition of eclogite facies?

- a. Omphacite + pyrope
- b. Pyrope + Quartz
- c. Hornblende + Plagioclase
- d. Diopside + Plagioclase

Question Number : 9 Question Id : 4165292809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hornfels are formed at -----.

- a. high T and low P by contact metamorphism
- b. high P and low T by contact metamorphism
- c. high P and high T
- d. Very high P

Question Number : 10 Question Id : 4165292810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ultramafic rocks and Mg-rich sediments after low grade metamorphism produce the following minerals.

- (a) Talc
- (b) Serpentine
- (c) Anthophyllite
- (d) All are correct

Question Number : 11 Question Id : 4165292811 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 parent rock of quartzo-feldspathic composition?

- (a) Sandstones
- (b) Arkose
- (c) Felsic rocks
- (d) All of the above

Question Number : 12 Question Id : 4165292812 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 Charnockite?

- a. Hypersthene + K-feldspar + Quartz
- b. Hornblende + K-feldspar + Quartz
- c. Sillimanite + K-feldspar + Quartz
- d. Epidote + Plagioclase + Quartz

Question Number : 13 Question Id : 4165292813 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 = ----- + C_{O_2} + H_2O

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

Question Number : 14 Question Id : 4165292814 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 + H_2O

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

Question Number : 15 Question Id : 4165292815 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 : 16 Question Id : 4165292816 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 : 17 Question Id : 4165292817 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 : 18 Question Id : 4165292818 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 : 19 Question Id : 4165292819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Khetri copper belt, Rajasthan India is an example of low pressure metamorphism up to grade of -----?

- (a) Greenschist facies
- (b) Amphibolite facies
- (c) Hornblende-hornfels facies
- (d) Pyroxene-hornfels facies

Question Number : 20 Question Id : 4165292820 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 : 21 Question Id : 4165292821 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 : 22 Question Id : 4165292822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Agents of metamorphism are_____.

- a) Chemical Elements
- b) P, T & Fluids
- c) Acids & Bases
- d) CO₂ & N₂

Question Number : 23 Question Id : 4165292823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dominant factor in contact metamorphism is _____.

- a) Temperature Only
- b) Pressure Only
- c) Fluids Only
- d) Volatiles Only

Question Number : 24 Question Id : 4165292824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Mylonites are _____ metamorphic rocks.

- a) Thermal
- b) Cataclastic
- c) Regional
- d) Hydrothermal

Question Number : 25 Question Id : 4165292825 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 facies Albite - epidote - hornfels was first introduced by ----- (1958)?

- (a) Winter
- (b) Thomas
- (c) Fyfe, Turner and Verhoogon
- (d) Choudhary

Question Number : 26 Question Id : 4165292826 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 : 27 Question Id : 4165292827 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: Fe-chlorite + Musco + Qtz = _____ + Biotite + Al₂SiO₅

- (a) Pyrope
- (b) Almandine
- (c) Grossularite
- (d) Staurolite

Question Number : 28 Question Id : 4165292828 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 Almandine (Fe₃Al₂Si₃O₁₂) 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 : 29 Question Id : 4165292829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

For thermodynamic calculation the temperature measured in _____.

- a) Kelvin (K = °C + 273.15)
- (b) °Centigrade
- (c) Centimeter
- (d) None of the above

Question Number : 30 Question Id : 4165292830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rock dominated by mineral dolomite is called _____.

- (a) Dolostone
- (b) limestone
- (c) sandstone
- (d) shale

Question Number : 31 Question Id : 4165292831 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 : 32 Question Id : 4165292832 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 : 33 Question Id : 4165292833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chemical Weathering is process of _____.

- (a) Changing chemical composition of rock due to a reaction
- (b) Sediment transportation
- (c) Transport previously eroded sediment
- (d) None of these

Question Number : 34 Question Id : 4165292834 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 : 35 Question Id : 4165292835 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 : 36 Question Id : 4165292836 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 : 37 Question Id : 4165292837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

..... is not the process of sedimentation.

- (a) Deposition
- (b) Transportation
- (c) Weathering
- (d) Foliation

Question Number : 38 Question Id : 4165292838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

... is not the sedimentary rock?

- (a) Mud rock
- (b) Sand stone
- (c) Conglomerates
- (d) Granite

Question Number : 39 Question Id : 4165292839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sands consist chiefly of quartz and _____.

- (a) Serpentine
- (b) Chlorite
- (c) Feldspars
- (d) Barite

Question Number : 40 Question Id : 4165292840 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 norite?

- (a) Clinopyroxene + plagioclase
- (b) Orthopyroxene + plagioclase
- (c) Olivine + clinopyroxene
- (d) Olivine + plagioclase

Question Number : 41 Question Id : 4165292841 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 grained plutonic igneous rocks composed of quartz, microcline and biotite is

- (a) Gabbro
- (b) Syenite
- (c) Granite
- (d) Anorthosite

Question Number : 42 Question Id : 4165292842 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 volcanic equivalent of the plutonic rock granodiorite?

- (a) Rhyolite
- (b) Dacite
- (c) Trachyte
- (d) Phonolite

Question Number : 43 Question Id : 4165292843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Anorthosite 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 : 44 Question Id : 4165292844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dunite 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 : 45 Question Id : 4165292845 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 : 46 Question Id : 4165292846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rhyolite is the volcanic equivalent of

- (a) Gabbro
- (b) Pegmatite
- (c) Syenite
- (d) Granite

Question Number : 47 Question Id : 4165292847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Gabbroic rocks exhibit the following texture

- (a) Intergrowth
- (b) Ophitic
- (c) Porphyritic
- (d) Flow

Question Number : 48 Question Id : 4165292848 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 : 49 Question Id : 4165292849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sill is a _____ type of igneous body.

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

Question Number : 50 Question Id : 4165292850 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 rock composed entirely of crystals is said to be _____.

- a) Holocrystalline
- (b) Holohyaline
- (c) Hemicrystalline
- (d) Crystalline

Question Number : 51 Question Id : 4165292851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Syenite differs from Diorite in the presence of _____.

- (a) K-feldspar
- (b) Plagioclase feldspar
- (c) Opaque
- (d) Quartz

Question Number : 52 Question Id : 4165292852 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 : 53 Question Id : 4165292853 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 crystallized first as per Bowen reaction Series?

- a) Pyroxene
- b) Biotite
- c) Plagioclase
- d) Olivine

Question Number : 54 Question Id : 4165292854 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 series normally temperature

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

Question Number : 55 Question Id : 4165292855 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 : 56 Question Id : 4165292856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Viscosity depends upon the

- a) Temperature
- b) Pressure
- c) Composition
- d) Temperature and Composition Both

Question Number : 57 Question Id : 4165292857 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 30 to 60 % dark mineral, the rock may be classed as

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

Question Number : 58 Question Id : 4165292858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rock of a super-cooled viscous solution with no regular molecular arrangement is called

- a) Crystallites
- b) Microlites
- c) Glass
- d) Hypabyssal rock

Question Number : 59 Question Id : 4165292859 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 : 60 Question Id : 4165292860 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 : 61 Question Id : 4165292861 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 texture in a rock indicates _____.

- a) A single stage of crystallization
- b) Two stages of cooling
- c) Incorporation of large crystal from other magma
- d) Segregations during a single cooling process

Question Number : 62 Question Id : 4165292862 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 lithosphere averages about _____ km thick.

- a) 100
- b) 200
- c) 300
- d) 600

Question Number : 63 Question Id : 4165292863 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 : 64 Question Id : 4165292864 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 CaSiO_3 is an example of _____.

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

Question Number : 65 Question Id : 4165292865 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 : 66 Question Id : 4165292866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phyllosilicates (10 A0 type) is an example of_____.

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

Question Number : 67 Question Id : 4165292867 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 : 68 Question Id : 4165292868 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 : 69 Question Id : 4165292869 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 : 70 Question Id : 4165292870 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 : 71 Question Id : 4165292871 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) Compositional only
- (b) Crystal structure only
- (c) Both compositional and crystal structure
- (d) All of the above

Question Number : 72 Question Id : 4165292872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An intergrowth texture in which plagioclase contains inclusion of potash feldspar is known as:

- (a) Antiperthite
- (b) Perthite
- (c) Graphic texture
- (d) Seriate texture

Question Number : 73 Question Id : 4165292873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Syenites in which plagioclase becomes approximately equal in amount to the alkali alkali feldspar are called:

- (a) Monzonites
- (b) Shonkinites
- (c) Granites
- (d) Diorites

Question Number : 74 Question Id : 4165292874 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) Assorted and well rounded

Question Number : 75 Question Id : 4165292875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sorting of particles is best in:

- (a) Beach sediments
- (b) Loess sediments
- (c) Sand dunes
- (d) Fluvial sediments

Question Number : 76 Question Id : 4165292876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Orthoquartzites are indicative of :

- (a) Transitional environment
- (b) Unstable environment
- (c) Stable environment
- (d) All of the above

Question Number : 77 Question Id : 4165292877 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 sedimentary facies may be described in terms of:

- (a) Lithological characteristic
- (b) Palaeontologic characteristic
- (c) a and b both
- (d) None of the above

Question Number : 78 Question Id : 4165292878 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 most of the sedimentary rocks:

- (a) $K > Na$
- (b) $K < Na$
- (c) $K = Na$
- (d) All of the above

**Question Number : 79 Question Id : 4165292879 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 richest in polymetalllic nodules?

- (a) Pacific ocean
- (b) Indian ocean
- (c) Atlantic ocean
- (d) Arctic ocean

**Question Number : 80 Question Id : 4165292880 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 zone concept in metamorphism was proposed by:

- (a) Eskola
- (b) Tilley
- (c) Barrow
- (d) Grubenmann