

PU M Tech Exploration Geo Sciences

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147 PU_2015_306_New

Khondalites are characteristic rocks of:-

- ☐ Greenschist facies
- ☐ Amphibolite facies
- ☐ Granulite facies
- ☐ Eclogite facies

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104 PU_2015_306_New

According to Richter scale of magnitude, an increase of 2 in magnitude of earthquake causes the increase in release of energy by:-

- ☐ 1000 times
- ☐ 10,000 times
- ☐ 10 times
- ☐ 100 times

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106 PU_2015_306_New

Epicentral distance of 180° equals to approximately how many kilometers on the surface of the earth. (radius of the earth is 6371 km)

- ☐ 18000 km
- ☐ 40010 km
- ☐ 20005 km
- ☐ 180 km

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117 PU_2015_306_New

The unit cell parameter for rutile is $a:c = 1:0.64$. If $d_{(100)} = 4.6 \text{ \AA}$ what is the unit cell volume (in cubic \AA)?

- ☐ 97.336
- ☐ 31.1
- ☐ 21.16
- ☐ 62.3

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149 PU_2015_306_New

Glacial striations on an outcrop trend NE-SW. The direction of ice movement was:-

- ☐ NW to SE
- ☐ NE to SW
- ☐ SW to NE
- ☐ could be either NE or SW

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110 PU_2015_306_New

Suture Zone present in an orogenic belt is characterized by:-

- ☐ Normal faults
- ☐ Horst and graben structures
- ☐ Oceanic crustal rocks and arc-trench sediments
- ☐ Molasse sediments

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150 PU_2015_306_New

Water from a certain source is shown to contain 10,000 ppm dissolved solids. This indicates that _____ percentage of the *particles* in this water are represented by the dissolved solids.

- ☐ 0.001%
- ☐ 10%
- ☐ 1%
- ☐ 0.1%

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141 PU_2015_306_New

The difference between Bingham magma and Newtonian magma is that:-

- ☐ Bingham magma requires to be provided a yield stress to initiate flow
- ☐ Bingham magma flows turbulently
- ☐ Stress is linearly proportional to strain in Bingham magma
- ☐ Bingham magma is less viscous

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101 PU_2015_306_New

The isostatic gravity anomaly over a topographic high is positive. It means:-

- ☐ Isostatic overcompensation
- ☐ Isostatic undercompensation
- ☐ presence of deep root zone
- ☐ complete isostatic compensation

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123 PU_2015_306_New

An example of a Pyroxene in which more than two thirds of the M2 sites are occupied by Ca cations:-

- ☐ Jadeite
- ☐ Diopside
- ☐ Aegirine
- ☐ Enstatite

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151 PU_2015_306_New

Lithification is the *primary* process in the formation of one of the following rocks.

- ☐ schist
- ☐ marble
- ☐ conglomerate
- ☐ gneiss

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126 PU_2015_306_New

Glaucophane is:-

- ☐ a calcic amphibole
- ☐ an alkali amphibole
- ☐ a magnesium amphibole
- ☐ a white mica

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113 PU_2015_306_New

The interfacial angle between the faces of tetrahedron is:-

- ☐ 90°
- ☐ 109° 28' 16"
- ☐ 54° 44' 8"
- ☐ 45°

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120 PU_2015_306_New

Which one of the following mineral is uniaxial negative in optical properties?

- ☐ Zircon
- ☐ Nepheline
- ☐ Rutile
- ☐ Quartz

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144 PU_2015_306_New

Which one of the following minerals indicates low-P condition?

- ☐ Sillimanite
- ☐ Garnet
- ☐ Cordierite
- ☐ Kyanite

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139 PU_2015_306_New

An olivine basalt undergoes fractional crystallization of olivine which results in tholeiite basalt. What are the elements that will be depleted in the tholeiite basalt relative to its parent?

- ☐ Ni and Mg
- ☐ Cr and Ce
- ☐ Cr and Zr
- ☐ Ce and Fe

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142 PU_2015_306_New

Both temperature and deviatoric stress are important agents in case of _____ metamorphism.

- ☐ Burial
- ☐ Thermal
- ☐ Dynamic
- ☐ Dynamo-thermal

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133 PU_2015_306_New

Which one of the following minerals is suitable for Rb-Sr method of dating?

- ☐ Biotite
- ☐ Pyrope
- ☐ Plagioclase
- ☐ Diopside

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102 PU_2015_306_New

Which of the following statements is Not true?

- ☐ Each planet is roughly twice as far from the Sun as its closest neighbor
- ☐ Great planets away from Sun have low densities
- ☐ The Sun has almost 99.9 % of the angular momentum of the solar system while the planets account for more than 99% of the mass
- ☐ The planets revolve around the Sun in same directional sense

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125 PU_2015_306_New

The group of clay minerals having 1:1 ratio of tetrahedral and octahedral components is:-

- ☐ Illite
- ☐ Smectite
- ☐ Kaolinite
- ☐ Vermiculite

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105 PU_2015_306_New

Seismic stations around the world have recorded a 'push' as the first motion. It means:-

- ☐ a double-couple source
- ☐ an underground explosion
- ☐ strong P-wave arrival
- ☐ a single-couple source

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115 PU_2015_306_New

The number of space lattices and point groups present in all types of crystals are_____ and _____ respectively.

- ☐ 30 & 232
- ☐ 32 & 230
- ☐ 14 & 32
- ☐ 16 & 30

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111 PU_2015_306_New

Aulacogen type of sedimentary basins form due to:-

- ☐ Thrusting in a collision related mountain building process
- ☐ Subsidence due to normal faulting
- ☐ Strike slip faulting along the margin of continent
- ☐ Failing of one of the rifts of triple-rift junction

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121 PU_2015_306_New

Refractive indices of olivine increase:-

- ☐ with increase in Fayalite content
- ☐ with increase in size
- ☐ with decrease in Fayalite content
- ☐ with increase in zoning

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155 PU_2015_306_New

The superposition of offshore facies over nearshore facies occurs when there is a marine:-

- ☐ invasion
- ☐ superposition
- ☐ regression
- ☐ transgression

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122 PU_2015_306_New

Out of the three polymorphs of aluminum silicates:-

- ☐ Sillimanite is the high temperature polymorph while andalusite is high pressure
- ☐ Kyanite is the high temperature polymorph while sillimanite is high pressure
- ☐ Andalusite is the high temperature polymorph while sillimanite is high pressure
- ☐ Sillimanite is the high temperature polymorph, while Kyanite is high pressure

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127 PU_2015_306_New

What are the major minerals present in peridotite?

- ☐ amphibole, biotite and plagioclase
- ☐ olivine, pyroxene and spinel
- ☐ pyroxene, biotite and quartz
- ☐ pyroxene, plagioclase and garnet

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154 PU_2015_306_New

Most limestones have a large component of calcite that was originally extracted from seawater by:-

- ☐ chemical weathering
- ☐ inorganic chemical reactions
- ☐ evaporation
- ☐ lithification

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129 PU_2015_306_New

What is the temperature of crystallization of tholeiite basalt at 1 atm. P.?

- ☐ 700°C
- ☐ 900°C
- ☐ 1200°C
- ☐ 1700°C

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114 PU_2015_306_New

Which one of the following forms does NOT belong to the isometric system?

- ☐ tetrahedron
- ☐ diploid
- ☐ octahedron
- ☐ pyramid

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158 PU_2015_306_New

In a cliff, you see coal near the base, then sandstone above it, then limestone, then sandstone again, and finally coal near the top. This pattern most likely means:-

- ☐ The sea advanced and then retreated again
- ☐ The sea retreated and then advanced again
- ☐ The climate changed from warm to cold and back
- ☐ Rainfall decreased and then increased again

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159 PU_2015_306_New

Which is most likely to represent a deposit formed on dry land?

- ☐ Mudrocks
- ☐ Black shale
- ☐ Dolomite
- ☐ Red sandstone

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100 PU_2015_306_New

The mean radius of the Earth is 6371 km. On taking a gravimeter 1 km up in a balloon you would expect the value of g to decrease by:-

- ☐ 0.03%
- ☐ 0.007%
- ☐ 1%
- ☐ 3%

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130 PU_2015_306_New

When enstatite is heated to its melting point it gives rise to:-

- ☐ melt of different composition and periclase
- ☐ melt of its composition
- ☐ melt of different composition and forsterite
- ☐ melt of different composition and quartz

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116 PU_2015_306_New

A mineral gives X-ray diffraction peak at $2\theta = 60^\circ$. Assuming that the X-ray wavelength is 1.5 \AA calculate the d-spacing.

- ☐ 0.75 \AA
- ☐ 3.0 \AA
- ☐ 0.5 \AA
- ☐ 1.5 \AA

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157 PU_2015_306_New

A mature sedimentary rock would exhibit which of these features?

- ☐ A wide variety of particle sizes
- ☐ Angular mineral fragments
- ☐ Stable mineral fragments
- ☐ Unstable mineral fragments

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108 PU_2015_306_New

Hawaiin-Emperor chain of oceanic islands is a result of:-

- ☐ subduction of Atlantic oceanic plate
- ☐ movement of Atlantic oceanic plate over a hot-spot
- ☐ subduction of pacific plate
- ☐ movement of Pacific oceanic plate over a hot-spot

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134 PU_2015_306_New

If melting point of a mineral is to be calculated using thermodynamic data then which one of the following is the correct equation? (H= enthalpy, S= entropy, V= molar volume, G= Gibb's free energy)

- ☐ $T = \Delta H / \Delta V$
- ☐ $T = \Delta G / \Delta S$
- ☐ $T = \Delta S / \Delta V$
- ☐ $T = \Delta H / \Delta S$

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136 PU_2015_306_New

During partial melting of basalt under granulite facies name the minerals that will be left in the residue?

- ☐ Pyroxene and plagioclase
- ☐ Hornblende and plagioclase
- ☐ Hornblende and garnet
- ☐ Pyroxene and quartz

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148 PU_2015_306_New

What causes ice ages?

- ☐ no definite cause has been conclusively proven
- ☐ variations in sun's heat output
- ☐ variations in the earth's orbit
- ☐ variations in sunlight reflected by the earth

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118 PU_2015_306_New

What is the appropriate crystal section to determine the extinction angle of a monoclinic crystal?

- ☐ (110)
- ☐ (111)
- ☐ (010)
- ☐ (100)

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140 PU_2015_306_New

Pyroclastic rocks are formed as a result of explosive volcanism. What are the factors responsible for explosive volcanism?

- ☐ Less viscous magma with high volatile content
- ☐ Less viscous magma low with volatile content
- ☐ Viscous magma and poor in volatile content
- ☐ Viscous magma with high % of volatile content

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128 PU_2015_306_New

Identify the sequence of rocks arranged in the increasing order of density.

- ☐ basalt, andesite, diorite
- ☐ andesite, gabbro, basalt
- ☐ andesite, basalt, gabbro
- ☐ gabbro, andesite, diorite

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146 PU_2015_306_New

The 'Buchan-type' metamorphism is characterized by the following metamorphic zones with increasing grade:-

- ☐ Chlorite zone-Biotite zone-Cordierite zone-Andalusite zone-Sillimanite zone
- ☐ Chlorite zone-Biotite zone-Garnet zone-Staurolite zone-Kyanite zone-Sillimanite zone
- ☐ Chlorite zone- Cordierite zone-Biotite zone- Andalusite zone-Sillimanite zone
- ☐ Chlorite zone-Biotite zone-Staurolite zone-Garnet zone -Kyanite zone-Sillimanite zone

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156 PU_2015_306_New

Well-sorted sediments contain:-

- ☐ a wide size range of particles
- ☐ abundant clay minerals
- ☐ a limited size range of particles
- ☐ only pebbles

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103 PU_2015_306_New

Which of the following seismic waves has highest velocity?

- ☐ S-wave
- ☐ P-wave
- ☐ love waves
- ☐ Rayleigh waves

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112 PU_2015_306_New

Which of the following is an example of continent-rifting?

- ☐ Eastern Ghats of India
- ☐ Emperor-Hawaiiin chain of islands
- ☐ Isua province of Greenland
- ☐ Basin and Range Province of USA

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124 PU_2015_306_New

Orthorhombic pyroxenes are similar to monoclinic pyroxenes in cell parameters except in the length of:-

- ☐ b axis which is higher in orthorhombic than in monoclinic
- ☐ a axis which is higher in orthorhombic than in monoclinic
- ☐ c axis which is higher in orthorhombic than in monoclinic
- ☐ a axis which is less in orthorhombic than in monoclinic

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137 PU_2015_306_New

Partial melting of an Olivine basalt at granulite facies gives rise to granodiorite magma. The concentration of Ce in the basalt is 6 ppm and in granodiorite magma is 60 ppm. Calculate the extent of partial melting in % assuming that Ce is an incompatible element with $D=0.001$.

- ☐ 10%
- ☐ 0.1%
- ☐ 6%
- ☐ 1%

50 of 100

152 PU_2015_306_New

Which of these would indicate the former presence of a glacial lake?

- ☐ Out wash sands
- ☐ Till
- ☐ Varved clay
- ☐ Loess

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107 PU_2015_306_New

The rock-deformation is said to be Newtonian (viscous) when:-

- ☐ strain is independent of stress
- ☐ strain is not proportional to stress
- ☐ strain is linearly proportional to stress
- ☐ rate of strain is linearly proportional to stress

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145 PU_2015_306_New

The minerals glaucophane and jadeite are indicative of:-

- ☐ high-P and low-T
- ☐ low-P and high-T
- ☐ high-P and high-T
- ☐ low-P and low-T

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143 PU_2015_306_New

Which of the following rocks is completely unfoliated?

- ☐ Slate
- ☐ Schist
- ☐ Mylonite
- ☐ Granofels

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153 PU_2015_306_New

A medial moraine is developed:-

- ☐ in the middle of two coalesced glaciers
- ☐ on the side of a glacier
- ☐ at the end of the glacier
- ☐ in the bergschrund

55 of 100

135 PU_2015_306_New

During partial melting of mantle which one of the following elements behave as incompatible element?

- ☐ Ni
- ☐ Co
- ☐ Cr
- ☐ Zr

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131 PU_2015_306_New

Which one of the following rocks is made up of > 90% of cumulate minerals?

- ☐ harzburgite
- ☐ tonalite
- ☐ lherzolite
- ☐ dunite

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132 PU_2015_306_New

Kimberlite magmas are generated below:-

- ☐ Continental lithosphere
- ☐ Continental rift
- ☐ Mid-ocean ridge
- ☐ Island arc

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138 PU_2015_306_New

A basaltic andesite magma undergoes differentiation and gives rise to dacite magma. The dacite has strong negative Eu anomaly, whereas, basalt has no Eu anomaly. What is the cause of - ve Eu anomaly in the dacite?

- ☐ Fractional crystallization of pyroxene
- ☐ Addition of plagioclase into dacite magma
- ☐ Fractional crystallization of olivine
- ☐ Fractional crystallization of plagioclase

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109 PU_2015_306_New

Igneous rocks usually associated with a mature Island-arc are:-

- ☐ tholeiitic
- ☐ carbonatites
- ☐ calc-alkaline
- ☐ peralkaline

60 of 100

119 PU_2015_306_New

Which one of the following mineral is optically biaxial?

- ☐ Siderite
- ☐ Dolomite
- ☐ Aragonite
- ☐ Calcite

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179 PU_2015_306_New

The ore metal of one of the following deposits is derived from rocks of continental crust, transported by meteoric water and deposited in organic carbon-rich zones of fluvial sediments.

- ☐ Quartz-pebble-conglomerate type uranium
- ☐ Sandstone-type uranium
- ☐ Unconformity-type uranium
- ☐ Redbed-type copper

62 of 100

164 PU_2015_306_New

Which factor does not directly influence the shape of a delta?

- ☐ strength and height of tides
- ☐ volume of sediment carried by the river
- ☐ intensity of wave action on the shore
- ☐ none of the above

63 of 100

162 PU_2015_306_New

Which of the following is a local base level?

- ☐ point bar
- ☐ floodplain
- ☐ lake
- ☐ ocean

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177 PU_2015_306_New

The ore metal of one of the following deposits is derived from silicate magma of intermediate composition, transported by and deposited from magmatic-hydrothermal fluid, and forms very large deposits of low grade ore.

- ☐ SEDEX lead-zinc
- ☐ Skarn tungsten
- ☐ Porphyry copper
- ☐ Greisen tungsten

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165 PU_2015_306_New

A stream that has more sediment to move than it can carry at one time is likely to be:-

- ☐ mature
- ☐ youthful
- ☐ meandering
- ☐ braided

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172 PU_2015_306_New

PGE refers to a group of six precious metals including:-

- ☐ Pt-Pd-Rh-Ru-Ir-Os
- ☐ Pt-Pd-Re-Os-Au-Ag
- ☐ Pt-Pd-Rh-Ru-Re-Os
- ☐ Pt-Pd-Re-Os-Rh-Ru

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176 PU_2015_306_New

Magmatic sulphide deposits are hosted by:-

- ☐ anorthosite
- ☐ nepheline syenite-carbonatite
- ☐ granite-granodiorite
- ☐ mafic-ultramafic rocks

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169 PU_2015_306_New

The Ordovician period is known as the age of:-

- ☐ corals
- ☐ brachiopoda
- ☐ crinoids
- ☐ graptolites

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173 PU_2015_306_New

One of the following group is called as rare metals:-

- ☐ Ce-Nd-Sm
- ☐ Sn-W-Mo
- ☐ Cu-Pb-Zn
- ☐ Li-Be-Nb

70 of 100

168 PU_2015_306_New

When did the Trilobite disappear from the Earth?

- ☐ End of Permian
- ☐ Devonian
- ☐ End of Cretaceous
- ☐ Carboniferous

71 of 100

161 PU_2015_306_New

Which of the following controls flow velocity in streams?

- ☐ gradient
- ☐ depth
- ☐ channel shape
- ☐ all of these

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160 PU_2015_306_New

Trellis drainage is most likely to develop on:-

- ☐ horizontal layers of volcanic rocks
- ☐ granite
- ☐ natural levees
- ☐ tilted sedimentary rock layers

73 of 100

174 PU_2015_306_New

One of the following is not a silicate ore mineral:-

- ☐ leucoxene
- ☐ lepidolite
- ☐ braunite
- ☐ beryl

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167 PU_2015_306_New

Which type of coiling is rare in gastropoda?

- ☐ sinistral
- ☐ trochospiral
- ☐ dextral
- ☐ armestral

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170 PU_2015_306_New

Flat topped sea mounts are termed as:-

- ☐ guyots
- ☐ mesa
- ☐ monodnock
- ☐ inselberg

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171 PU_2015_306_New

The 3 domains involved in all the ore forming processes are:-

- ☐ Source-migration path-ore trap
- ☐ Partial melting-transportation-deposition
- ☐ Melting-migration-crystallisation
- ☐ Dissolution-transportation-precipitation

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163 PU_2015_306_New

A stream can lengthen its channel by:-

- ☐ hydraulic action
- ☐ headward erosion
- ☐ downcutting
- ☐ runoff

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178 PU_2015_306_New

The ore metals of one of the following deposits are derived from MOR basalt, transported by and deposited from sea water-hydrothermal fluid, and forms massive sulphide deposits.

- ☐ Sudbury-type nickel-copper
- ☐ Kuroko-type lead-zinc
- ☐ Cyprus-type copper-zinc
- ☐ Epithermal silver-lead

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175 PU_2015_306_New

One of the following is a magmatic sulphide deposit:-

- ☐ Climax-type molybdenum
- ☐ Sudbury copper-nickel
- ☐ Cyprus-type copper-zinc
- ☐ Kuroko-type lead-zinc

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166 PU_2015_306_New

Bays and headlands are generally found in shoreline of:-

- ☐ neutral
- ☐ faulted
- ☐ emergence
- ☐ submergence

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180 PU_2015_306_New

A basic assumption in the interpretation of fluid inclusions is that these are:-

- ☐ isobaric
- ☐ isothermal
- ☐ isochoric
- ☐ isochemical

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187 PU_2015_306_New

One of the following metals does not form any mineral in which it is a constituent element.

- ☐ Cerium
- ☐ Platinum
- ☐ Niobium
- ☐ Rhenium

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192 PU_2015_306_New

A world class wollastonite deposit occurs in southern part of Delhi fold belt at:-

- ☐ Belka Pahar and Khera Tarla
- ☐ Balda and Dewa-ka-bera
- ☐ Basantgarh and Pipela
- ☐ Deri and Ambamata

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196 PU_2015_306_New

One of the following is a hydrothermal deposit:-

- ☐ Greisen tungsten
- ☐ Podiform chromite
- ☐ Gondite type manganese
- ☐ BIF hosted iron ore

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183 PU_2015_306_New

Uranium deposit types are correctly arranged in decreasing order of age (that is old to young) in one of the following:-

- ☐ Unconformity - QPC - Sandstone
- ☐ Unconformity - Sandstone - QPC
- ☐ QPC - Unconformity - Sandstone
- ☐ Sandstone - Unconformity - QPC

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181 PU_2015_306_New

Degree of fill of a fluid inclusion refers to the relative proportion of:-

- ☐ liquid + vapour phases to the total volume of fluid inclusion
- ☐ vapour phase to the total volume of fluid inclusion
- ☐ liquid phase to the total volume of fluid inclusion
- ☐ daughter crystal to the total volume of fluid inclusion

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193 PU_2015_306_New

In the process of froth flotation for concentrating sulphide ores, pine oil and oleic acid are used as:-

- ☐ modifier
- ☐ collector
- ☐ frother and collector respectively
- ☐ frother

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182 PU_2015_306_New

Boiling of fluid, mixing of fluids and fluid-rock interaction are the important processes responsible for:-

- ☐ transport of metal by a fluid phase
- ☐ leaching of metal from source rock
- ☐ deposition of ore from a hydrothermal fluid
- ☐ dispersion of metal in a rock

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197 PU_2015_306_New

One of the following is the characteristic mineral assemblage of greisen:-

- ☐ Quartz-muscovite-topaz-fluorite
- ☐ Quartz-microcline-sodic plagioclase
- ☐ Quartz-orthoclase- sodic plagioclase
- ☐ Quartz-microcline-sodic plagioclase-fluorite

90 of 100

195 PU_2015_306_New

Jigging is a process in which minerals are separated according to their:-

- ☐ density
- ☐ size
- ☐ water-adhering or air-adhering character
- ☐ magnetic susceptibility

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188 PU_2015_306_New

Apart from lode gold deposits, gold is produced in India from:-

- ☐ copper concentrate
- ☐ lead concentrate
- ☐ chromite
- ☐ uranium ore

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198 PU_2015_306_New

One of the following mineral deposits does not occur in skarn:-

- ☐ Fe-Sn-W
- ☐ Cr-Ni-Ti
- ☐ Wollastonite
- ☐ Cu-Pb-Zn

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190 PU_2015_306_New

The asbestos mined from Pulivendla area of Cuddapah basin is a:-

- ☐ chialtolite
- ☐ chrysolite
- ☐ chrysotile
- ☐ cristobalite

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184 PU_2015_306_New

One of the following ore minerals is not common in beach placer deposits:-

- ☐ rutile
- ☐ chromite
- ☐ ilmenite
- ☐ monazite

95 of 100

189 PU_2015_306_New

Asbestos deposits in Pulivendla area of Cuddapah basin occur:-

- ☐ within dolostone
- ☐ at the contact zone between shale and basic dyke
- ☐ at the contact zone between dolostone and basic dyke
- ☐ within shale

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194 PU_2015_306_New

In mineral processing plants, run-off mine is reduced in size by crushing and grinding for:-

- ☐ classification of run-off mine according to size
- ☐ optimal liberation of ore minerals from gangue minerals
- ☐ separation of gangue minerals
- ☐ concentration of ore minerals

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185 PU_2015_306_New

Typical profile of a lateritic bauxite deposit consists of:- (from top to bottom)

- ☐ laterite-bauxite-lithomarge-partially weathered bed rock-bed rock
- ☐ bauxite-laterite-lithomarge-partially weathered bed rock-bed rock
- ☐ lithomarge-bauxite-laterite-partially weathered bed rock-bed rock
- ☐ lithomarge-laterite-bauxite-partially weathered bed rock-bed rock

98 of 100

191 PU_2015_306_New

"Green marble" mined from Rishabdev area of Aravalli fold belt is:-

- ☐ serpentinised peridotite
- ☐ diopside-bearing dolomitic marble
- ☐ actinolite-bearing dolomitic marble
- ☐ epidote-bearing dolomitic marble

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186 PU_2015_306_New

Metals in one of the following options are recovered from their ores by acid leaching.

- ☐ gold and molybdenum
- ☐ silver and uranium
- ☐ silver and molybdenum
- ☐ gold and zinc

100 of 100

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Dolostone hosted uranium deposit occurs at:-

- ☐ Gogi
- ☐ Jaduguda
- ☐ Tummalapalle
- ☐ Domiasiat