PU M Sc Applied Geology

110	F 100 PU_2015_367_New average thickness of a lithospheric plate is approximately:- 35 km 100 km 5 km
104	F 100 PU_2015_367_New inst hat crystallize to a significantly larger size than those of the matrix, in an igneous rocks are ed:- Relic inclusions Porphyroblasts Xenoliths Phenocrysts
114	F 100 PU_2015_367_New acturally quartz is a:- Framework silicate Ring silicate Isolated slilicate Chain silicate
126	F 100 PU_2015_367_New yroxine mineral having equal amount of CaO and FeO molecules is known as:- Bronzite Pigeonite Diopside Hedenbergite
153	F 100 PU_2015_367_New high pressure polymorph of silica, coesite, stishovite, may be associated with:- Contact metamorphism Impact metamorphism Burrial metamorphism

0	Hydrothermal metamorphism
159	F 100 PU_2015_367_New least stable mineral in clastic detritus is:-
0	Quartz
0	Olivine
0	Hornblende
0	Amphibole
111 A cr	f 100 PU_2015_367_New ystal appears unchanged when rotated 180°. Such an axis of rotation is axis of:-
0	2-fold symmetry
0	3-fold symmetry
0	4-fold symmetry
0	1-fold symmetry
139	F 100 PU_2015_367_New d with alternate sharp and broad hinges are called:- Cuspate fold Box fold Chevron fold Concentric fold
140	f 100 PU_2015_367_New e axial planar cleavage is steeper than the dip of the fold limb, then limb is called:-
0	Overturned limb
0	Inverted limb
0	Normal limb
0	Back limb
156	PU_2015_367_New aggregate of sediment consists of particles that are all about the same size, it is said to be:-
0	Sandstone
0	Lithified

0	Well sorted
100	of 100 PU_2015_367_New parse grained rock mainly composed of orthopyroxene and plagioclase is called as:-
0	Gabbro
0	Harzburgite
0	Norite
0	Lherzolite
109 Con	of 100 PU_2015_367_New tinental crust is higher in elevation than oceanic crust because:-
0	It is denser than oceanic crust
0	It is more buoyant than oceanic crust
0	It is older than oceanic crust
0	It is younger than oceanic crust
113	of 100 PU_2015_367_New ctronegativity of elements increases:-
О	In atoms that have partially filled outer shell
0	With decrease in neutrons
0	From left to right of the Periodic table
0	From right to left of the Periodic table
124	of 100 PU_2015_367_New ch one of the following is permitted in the Miller's indices?
0	Fractions
0	Infinity
0	Zero
0	Real numbers
135	of 100 PU_2015_367_New dominant magma that erupted during the Deccan Volcanism is:-
0	Tholeritic basalt
0	Alkali basalt
0	Trachyte

0	Andesite
150 In th	of 100 PU_2015_367_New ne triangular ACF diagrams used to designate the mineralogical and chemical composition of amorphic facies, the 'A' apex represent:-
0	$Al_2O_3 + Fe_2O_3 - Na_2O - K_2O$
0	AI_2O_3
0	$Al_2O_3 + Na_2O + K_2O$
0	$Al_2O_3 + Fe_2O_3 - K_2O$
101 Whi	of 100 PU_2015_367_New ich of the following is a concordant intrusive body?
0	Cone sheet
0	Lopolith
0	Stock
0	Ring dike
148	of 100 PU_2015_367_New lydrous rocks are characteristically present in rocks belonging to:-
0	Granulite facies
0	Amphibolite facies
0	Greenschist facies
0	Eclogite facies
119	of 100 PU_2015_367_New ich one of the following minerals crystallize in the Orthorhombic system?
0	Calcite
0	Aragonite
0	Dolerite
0	Rhodochrosite
155	of 100 PU_2015_367_New ich of the following is detrital sediment?
0	Quartz sand
0	Graded bedding

0	Broken sea shells
\circ	lons in solution
127	of 100 PU_2015_367_New gioclase having 30 to 50 % anorthite content is known as:-
0	Labradorite
0	Anorthoclase
Ö	Andesine
	Oligoclase
157 Whi	of 100 PU_2015_367_New ch of the following can be used to determine paleocurrent direction?
0	Cross-bedding
0	Graded bedding
0	Mud cracks
0	Turbidity currents
107 Eart	of 100 PU_2015_367_New h's crust consists of continental and oceanic parts. Which of the following statement is not true?
0	Oceanic crust is more metamorphosed compared to continental crust
0	Oceanic crust is younger than continental crust
0	Oceanic crust is thinner compared to continental crust
0	Oceanic crust has global layering while continental crust doesn't
137	of 100 PU_2015_367_New Id which is concave upward is called as:-
0	Antiform
0	Synform
0	Anticline
0	Syncline
25 of 100 102 PU_2015_367_New When a single pyroxene envelops several well-developed plagioclase laths, the texture is ca	
0	Porphyroblast
0	Ophitic texture

0	Granoblast Poikiloblast
120	of 100 PU_2015_367_New ich one of the following minerals crystallize in cubic system? Spinel Hematite
0	Corundum Siderite
118 If a	of 100 PU_2015_367_New set of equivalent crystal faces are related to each other by a three fold axis of rotation, what will be le between these faces?
0000	601203090
117	of 100 PU_2015_367_New ich of the following is a K-feldpar? Andesine Orthoclase Anorthite Oligoclase
129 A rc	of 100 PU_2015_367_New ock containing Phenocrysts of Olivine set in a fine grained matrix of pyroxene and plagioclase is wn as:- Diorite Basalt Gabbro Norite
147	of 100 PU_2015_367_New ase of Barrovian metamorphism, the lowest grade of metamorphism is marked by the mineral:-

0 0	Kyanite Chlorite Garnet
108	of 100 PU_2015_367_New ch of the following regions would have thicker crust? Precambrian Shield
-	Mountain belt
0	Island arc Mid Oceanic ridges
32 of 100 121 PU_2015_367_New Which one of the following mineral belongs to spinel group?	
0	Hematite Magnetite
\triangle	Zircon Ilmenite
33 of 100 144 PU_2015_367_New Metamorphic grade refers to:-	
0	Intensity of metamorphism
0	Texture and structure of the rock types
0	Critical mineral assemblages
0	Particular rock type
34 of 100 132 PU_2015_367_New At the binary eutectic which of the following phases coexist?	
0	A crystal phase and a liquid
_	Two different crystal phases
0	Three different crystal phases
0	Two different crystal phases and a liquid
142	PU_2015_367_New e strike of a dip slip normal fault is N30°E, then the trend of the net slip will be:-N30°W

0	N60°E
_	S30°W
О	S60°E
138 A fo	of 100 PU_2015_367_New Ild in which younging direction is away from the fold core is called:-
0	Synform
0	Antiform
0	Anticline
0	Syncline
133 Con	of 100 PU_2015_367_New nplete solid solution is exhibited at 1 atmospheric pressure by:-
0	Diopside Enstatite
0	Albite Anorthite
0	Actinolite Tremolite
0	Enstatite Ferrosilite
103	of 100 PU_2015_367_New oclastic deposits are usually found associated with:-
0	Ropy lava
0	Shield volcano
0	Pahoehoe flow
0	Explosive volcano
115 A m	of 100 PU_2015_367_New ineral is scratchable by quartz but not by apatite. Hardness of this mineral on Mohs scale is:-
0	Less than apatite
0	less than 5
0	less than 7
0	more than 7
134	of 100 PU_2015_367_New natites are typically found in:-
100	Tertiary valconic provinces

0	Proterozoic mobile belts
0	Proterozoic sedimentary basins
0	Archean greenstone belts
130	PU_2015_367_New major minerals present in granite are:- Sanidine, quartz and labradorite Nepheline, quartz and labradorite Orthoclase, quartz and nepheline
О	Microcline, quartz and albite
42 of 100 154 PU_2015_367_New Sedimentary breccia is a rare rock type because:-	
0	Sand deposits are typically well sorted
0	Gravel is rounded quickly during transport
0	Feldspars are chemically unstable
0	Clay is less abundant than other sedimentary particles
149	of 100 PU_2015_367_New reaction Ferrosilite + Diopside = Enstatite + Hedenbergite, is a kind of:-
0	Oxidation reaction
0	Ion-exchange reaction
0	Solid-solid net-transfer reaction
O	Devolatilization reaction
44 of 100 152 PU_2015_367_New Which of the metamorphic zone of Barrow is similar to the greenschist fa	
0	Biotite zone
	Staurolite zone
0	Sillimanite zone
O	Garnet zone
141	PU_2015_367_New ke/pitch of the net slip on the fault plane is 90, then the fault will be:-

0	Oblique slip fault
0	Strike-slip fault
0	Hinge fault
116	PU_2015_367_New ch of the following mineral is a chain silicate? Augite Biotitie Olivine Anorthite
131 Volc	of 100 PU_2015_367_New canic equivalent of the plutonic rock granodiorite is:-
0	Rhodacite
0	Rhyolite
0	Dacite
0	Andesite
123	PU_2015_367_New ch one of the following is an open form? Prism Octahedron
O	Tetrahedron
0	Pyramid
143	PU_2015_367_New amorphic facies are defined by the:-
0	Critical mineral assemblages
0	Pressure-Temperature condition
0	Particular rock type
	Texture and structure of the rock types
146	of 100 PU_2015_367_New mineral omphacite is characteristic of:-
100	Blueschist facies

0	Granulite facies
0	Greenschist facies
0	Eclogite facies
125 Whi	PU_2015_367_New ch one of the following forms belongs to the isometric system? Sphenoid Pyramid
0	Prism
0	Octahedral
105	of 100 PU_2015_367_New es of oceanic crust that have been emplaced (obducted) onto continental crust:- Granulite
0	Mylonite
0	Migmatite
0	Ophiolite
122	PU_2015_367_New axial ratio of a crystal is determined as 0.82 : 1.94. Which crystal system this may belong to? Hexagonal or Tetragonal Isometric or Hexagonal Isometric or Tetragonal Orthorhombic or Monoclinic
136 If the	of 100 PU_2015_367_New e orientation of the principal stress axes X, Y and Z does not change during the deformation, the ormation is known as:-
0	Simple shear
0	Triaxial stress
0	Pure shear
0	Axial strain
55 (of 100

106 PU_2015_367_New Outer core is liquid while the inner core is solid because:-

O O O mat	Inner core is rich in iron and nickel while outer core is not
	Outer core is in contact with liquid mantle
	Melting point of material in outer core is less than the ambient temperature while it is more for the erial in inner core due to higher pressure
0	Outer core is heated more than the inner core
112	PU_2015_367_New crystal 4 non-parallel faces intersect in a point. Form of these faces is:- Dome Prism Pinacoid Pyramid
145 Whi pres	of 100 PU_2015_367_New ch of the following metamorphic facies is characterized by maximum temperature and minimum ssures?
0	Greenschist
0	Blueschist
0	Sanidinite facies
0	Hornblende-hornfels facies
158	PU_2015_367_New ding or stratification in a sedimentary rock:- Represents variations which took place during deposition Is always exactly horizontal Results from heat Is due to directed pressure from earth forces
151	of 100 PU_2015_367_New red metamorphic belt is a characteristic feature of:-
0	Continental collision zone
0	Sea floor spreading zone
0	Continental rift zone
0	Subduction zone

128 PU_2015_367_New Which one of the following statements about Andalusite, Kyanite and Sillimanite is WRONG?
Commonly one of them is present in Metamorphosed peptic rocks
If all the three are present the pressure and temperature conditions can be determined
They have same chemical formula
They have same crystal structure
61 of 100 171 PU_2015_367_New The thorax and the pygidium can be differentiated by their:-
movable and immovable character
number of furrow
Shape and size
the nature of furrows
62 of 100 165 PU_2015_367_New A drainage pattern in which streams flow in and out of lakes with irregular flow directions is:-
Rectangular
Deranged
Radial
Longitudinal
63 of 100 177 PU_2015_367_New Petrified wood is an example of:-
Desiccation
Encrustation
Altercation
Substitution
64 of 100 163 PU_2015_367_New Which of these environments can produce cross beds?
Alluvial fans
River Deltas
Sand dunes
C All the above

	PU_2015_367_New ch group provides the fast moving invertebrate?	
0	Gastropoda	
0	Cephalopoda	
0	Echinodermata	
0	Brachiopoda	
174 Wha	of 100 PU_2015_367_New at is the age of Muth quartzite?	
0	Carboniferous	
0	Devonian	
0	Ordovician	
0	Silurian	
178 Neo	of 100 PU_2015_367_New gene period includes:-	
0	Oligocene, Miocene & Pliocene	
0	Miocene & Pliocene	
0	Paleocene, Eocene & Oligocene	
0	Paleogene & Eocene	
68 of 100 164 PU_2015_367_New In which of the following do foreset beds occur?		
0	Alluvial fans	
0	Point bars	
0	Deltas	
0	Natural levees	
172 Mea	of 100 PU_2015_367_New aning of Coelentrates is:-	
0	chambered body	
0	segmented body	
0	hollow inside	
0	stomach foot	

	PU_2015_367_New niform flat rocks, drainage patterns tend to be:-
0000	Trellis
	Dendritic
	Braided
	Radial
173 The	of 100 PU_2015_367_New Olive series is developed in:-
0	Kashmir
0	Salt range
0	Simla
0	Kumaon
162	of 100 PU_2015_367_New ch would be least likely to indicate a desert environment?
0	Evaporite
0	Mud cracks
0	Large cross-beds
0	Limestone
179 Petr	of 100 PU_2015_367_New coleum and Natural gas are chiefly composed of:-
0	Oxygen
0	Hydrogen & Carbon
0	Hydrogen
0	Nitrogen
161	of 100 PU_2015_367_New I cracks are most likely to form by:-
0	Periodic exposure to the air and drying out
0	Fast-moving water that gradually slowed down
0	Rapidly changing patterns of erosion and deposition
0	Gently oscillating waves

:-

	PU_2015_367_New sional remnants of floodplains that are higher than the current level of a stream are:-
0	Cut banks
0	Natural bridges
0	Incised meanders
0	Stream terraces
196 India	of 100 PU_2015_367_New a is a major producer of one of the following metals.
0	Aluminium
0	Lead
0	Uranium
0	Gold
193 In a	of 100 PU_2015_367_New lateritic bauxite deposit, the uppermost litho-unit is:-
0	partially weathered bedrock
0	lithomarge
0	bauxite
0	laterite
189 One	of 100 PU_2015_367_New of the following sulphide minerals can be transluscent or transparent.
0	Pyrite
0	Chalcopyrite
0	Sphalerite
0	Galena
185 Ore	of 100 PU_2015_367_New deposits of one of the following economic minerals are always formed by magmatic process.
0	Pyrolusite
0	Sphalerite
0	Chromite
0	Magnetite

	PU_2015_367_New of the following occurs in the form of pipe.
0	Diamond bearing kimberlite
0	Porphyry copper
0	Volcanogenic massive sulphide
0	Mica pegmatite
192 One	of 100 PU_2015_367_New of the following represents the chemical composition of magnetite.
0	$Fe^{2+}Fe^{3+}O_3$
	Fe ³⁺ 2O ₃
	Fe ²⁺ Fe ³⁺ ₂ O ₄
0	Fe ³⁺ Fe ²⁺ ₂ O ₄
197 Cop	of 100 PU_2015_367_New per is not a constituent element of one of the following ore minerals.
0	Covellite
0	Pyrrhotite
0	Bornite
0	Chalcocite
191	of 100 PU_2015_367_New of the following represents the chemical composition of pyrrhotite.
0	Fe ₂ S _{1-x}
0	FeS _{1-x}
0	Fe _{1-x} S ₂
0	Fe _{1-x} S
198 The	of 100 PU_2015_367_New largest zinc deposit in India is located at:-
0	Sargipalle, Orissa
0	Agucha, Rajasthan
0	Agnigundla, Andhra Pradesh
0	Zawar, Rajasthan

186 PU_2015_367_New One of the following pairs is an example of "oxide mineral":
Spessartite : Sphalerite
Gibbsite : Galena
Cassiterite : Chalcopyrite
Pyrrhotite : Pyrite
91 of 100 199 PU_2015_367_New The largest bauxite mines in India is located at:-
Yercaud, Tamii Nadu
Kolii Hills, Tamii Nadu
Korba, Madnya Pradesh
Panchpatmali, Orissa
92 of 100 184 PU_2015_367_New Identify the wrong pair of "ore mineral: host rock".
Hematite : Banded Iron Formation
Galena : Carbonate rock
Chalcopyrite : Quartz monzonite
Chromite : Norite
93 of 100 187 PU_2015_367_New Hydrothermal ore deposits often occur in the form of:-
Stock
Vein
C Bed
© Dyke
94 of 100 190 PU_2015_367_New One of the following oxide minerals can be transluscent or transparent. Chromite Wolframite Cassiterite Pyrolusite

195	PU_2015_367_New
Wal	I rock alteration is a characteristic feature of:-
0	Sedimentary deposits
0	Metamorphic deposits
0	Hydrothermal deposits
0	Magmatic deposits