SEAL

MEMILIER

60911		
ROLL No.	_	
	. QN. BOOKLET No.	012

TEST FOR POST GRADUATE PROGRAMMES

GEOLOGY

Time: 2 Hours Maximum Marks: 450

INSTRUCTIONS TO CANDIDATES

- You are provided with a Question Booklet and an Optical Mark Reader (OMR) Answer Sheet to mark your responses. Do not soil your OMR Sheet. Read carefully all the instructions given on the OMR Sheet.
- . 2. Write your Roll Number in the space provided on the top of this page.
 - Also write your Roll Number, Test Code, Test Centre Code, Test Centre Name, Test Subject and
 the date and time of the examination in the columns provided for the same on the Answer Sheet.
 Darken the appropriate bubbles with HB pencil.
 - 4. The paper consists of 150 objective type questions. All questions carry equal marks.
 - 5. Each Question has four alternative responses marked A, B, C and D and you have to darken the bubble fully by HB pencil corresponding to the correct response as indicated in the example shown on the Answer Sheet. Also write the alphabet of your response with ball pen in the starred column against attempted questions and put an 'x' mark by ball pen in the starred column against unattempted questions as given in the example in the OMR Sheet.
 - 6. Each correct answer carries 3 marks and each wrong answer carries 1 minus mark.
 - 7. Please do your rough work only on the space provided for it at the end of this question booklet.
 - 8. You should return the Answer Sheet to the Invigilator before you leave the examination hall. However Question Booklet may be retained with the Candidate.
- Every precaution has been taken to avoid errors in the Question Booklet. In the event of such unforeseen happenings, suitable remedial measures will be taken at the time of evaluation.
- 10. Please feel comfortable and relaxed. You can do better in this test in a tension-free disposition.

WISH YOU A SUCCESSFUL PERFORMANCE



GEOLOGY

		4 a 1 30 k		The same of the sa
١.	Which o	ne of the following is corre	ectly matche	d?
	(B) (C)	Potassium - Magnesium - Calcium - Iron -	Orthocla Calcite Barite Magnesi	et William De Vitati
2.	Arrange	the four cations of ground	water in dec	reasing order of abundance.
£.	(A) (B) (C) (D)	potassium, magnesium, ca sodium, calcium, magnesi magnesium, sodium, calci calcium, sodium, potassiu	ium, potassii ium, potassii im, magnesii	im im im
3.	The mu	scovite mica deposit of N ks?	ellore occurs	s in which one of the following
	(A) (C)	Schist Granite	(B) (D)	Gneiss Pegmatite
4.	Baryte	deposits occur in		# A
	(A) (C)	Gulcheru quartzites Tadpatri shales	(B) (D)	Vempalle limestones Kolamnala shales
5.	The Cu	ddapah Supergroup of roc	ks are over l a	in by
	(A) (C)	Gwalior group Kaladgi group	(B) (D)	Kurnool group Pakhal group
6.	The ag	e of Cypridea is	74	41 42 4
	(A) (C)	Oligocene	(D)	Eocene
7.	If biot follow	ite is present in the rocking minerals in CIPW non	t, there is a	n increase in which one of the
	(A) (C)		(B) (D)	1000-014V

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		2		
8.	In gene SiO ₂ in	ral, which one of the following rock suites?	oxides	s shows positive correlation with
	(A) (C)	MgO FeO	(B) (D)	CaO A1 ₂ O ₃
9.	The dol	erite dyke intruding granitic cou	ntry ro	ock is richer in
	(A) (C)	Cr and Ni Cu and Zn	(B) (D)	K and Ba Zr and Sr
10.	Fraction	nal crystallization takes place wh	en the	
	(A) (C)	rate of cooling is fast pressure is high	(B) (D)	rate of cooling is slow volatiles are in excess
i1.	Liquid	immiscibility is found to occur in	n the s	ystem
	(A) (B) (C) (D)	Albite - Diopside - Silica		
12.	Under	very high pressure, basaltic magr	na cry	stallises to form
	(A)	Feldspar and Clinopyroxene Orthopyroxene and Plagioclass		Clinopyroxene and Gamet Olivine and Calcic plagioclase
13.	Two-fo	ld classification of Gondwana w	as pro	posed by
	(A) (C)	Pascoe Medlicott	(B) (D)	C. S. Fox Feistmantle
14.	Which	one of the following is correctly	match	ed?
	(A) (C)	Anorthosite - Sittampundi Carbonatite - Chalk hills	(B) (D)	Syenite - St. Thomas Mount Dunite - Sivamalai

The rock types which are richer in olivine-plagioclase are known as

(B) Gabbroic Anorthosite

(D) Troctolite

(A) Anorthositic gabbro

(C) Gabbro

15.



16.	Olivine	-free basanite is called as			plant in the second
	(A)	Leucitite	25.0.1	(B)	Nephelinite
	(C)	Phonolite		(D)	Tephrite
17.	Which	of the following is a meta	morphic	rock	7
	(A)	Granitoid		(B)	Granophyre
	(C)	Granulite	8	(D)	Graphic granite
18.	A volca	nic rock equivalent to Mo	onzonite	is ca	lled
	(A)	Andesite		(B)	Dacite date and
	(C)	Latite		(D)	Trachyte
19.	Which eruptio		likely	to p	roduce obsidian in a lava flow
	(A)	Alkaline		(B)	Felsic
	(C)	Mafic		(D)	Ultramafic
20.	The nu	mber of classes in hexago	nal divi	sion c	of hexagonal system is
	(A)	5		(B)	7
	(A) (C)	6		(D)	8
21.	In X-ra anode?	E.	one of	the fo	ollowing elements is not used as
	•			· ·	· ·
	(A)	Molybdenum Iron		(B) (D)	Copper Tungsten
	(C)	Holi		(D)	Tungoton
22.	The fa	ces of pyramid in Orthorh	ombic s	ysten	ı is a/an
	(A)	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		(B)	
	(C)	isosceles triangle		(D)	scalene triangle
23.	Which Systen		mineral	s do	es not crystallise in Tetragonal
	(A)	Vesuvianite		(B)	Apophyllite
	(C)	Octahedrite		(D)	



24.	Where o	do you find pillow lavas?		
	(A) (B) (C) (D)	Kolar schist belt Chitradurga schist belt Nellore schist belt Sargur schist belt		,
25.	Which	of the following is a phosphate	minera	17
	(A) (C)	Ilmenite Sillimanite	(B) (D)	Rutile Monazite
26.	Strike f	ault that is parallel to the beddir	ng is kn	own as
	(A) (C)	parallel fault longitudinal fault	(B) (D)	bedding fault enechelon fault
27.	A surfa with su	ce of erosion which is covered lab-surface rock is called	by resid	ual soil and lacks sharp contact
	(A) (C)	intrusive contact peneplanation	(B) (D)	non-conformity blended unconformity
28.	Relativ	ely short faults that overlap eac	h other	are called
	(A) (C)	radial faults peripheral faults	(B) (D)	enechelon faults overlap faults
29.	Which	of the following drainage patter	ms rese	mbles the branching of a tree?
	(A) (C)	Trellis Radial	(B) (D)	Dendritic Parallel
30.	In biax	ial minerals the plane X-Z is ca	lled	
	(A) (C)	acute bisectrix optic axial plane	(B) (D)	optic axis optic normal
31.	Jelly-ty index o		r is use	d for determination of refractive
	(A) (C)	all minerals isotropic minerals	(B)	biaxial minerals uniaxial minerals

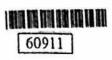


32.	The system that does not belong to Biaxial group is				
	(A) (C)	hexagonal orthorhombic	(B) (D)	monoclinic triclinic	
33.	Paradox	ides is an index fossil for		1 0 - 11 2	
	(A) (C)	lower Cambrian upper Cambrian	(B) (D)	middle Cambrian lower Ordovician	
34.	Earthquas as	ake generated due to sudden Ear	th mo	ovements along faults are known	
,	(A) (C)	deep earthquake tectonic earthquake	(B) (D)	shallow earthquake volcanic earthquake	
35.	Earthqu structure	ake intensity scale devised on e is called,	the b	asis of damage and loss to the	
	(A) (C)	Richter scale Wegner scale	(B) (D)	Mercalli scale Magnitude scale	
36.	Vesicu	lar fragments of lava crust with s	ponge	e like texture are called	
	(A) (C)	Scoria Tephra	(B) (D)	Lapilli Volcanic tuff.	
37.	Which from th		of pla	anets is with increasing distance	
	(A) (B) (C) (D)	Neptune – Earth – Uranus – Jup Earth – Neptune – Saturn – Ura Earth – Jupiter – Uranus – Nep Uranus – Saturn – Earth – Jupit	nus tune	*	
38.	Which	one of the following minerals is	named	l after an island in the Red Sea?	
	(A) (C)	Albite Labradorite	(B) (D)	Beryl Topaz	
39.	Black	Fourmaline is called			
	(A) (C)	Lawsonite Dichroite	(B) (D)	Schorl Iolite	

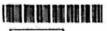
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40.	Chlorite	is an abundant mineral in .		and yet in the second	
	(A)	low grade gneiss	(B)	high grade gneiss high grade schist	
	(C)	low grade schist	(D)	Iligii grado somos	
41.	Mining,	in which excavation is done	from a rai	ise is known as	
	(A)	underhand stoping	(B)	shrinkage stoping	
	(C)	open overhand stoping	(D)	sub-level stoping	
42.	Which	one of the following rocks sho	ws high	radioactive anomaly?	
	(A)	Amphibolite	(B)	Pegmatite	
	(C)	Granite	(D)	Basalt	
43.	Which	one of the following minor ele	ements is	very mabile?	
	(A)	Br	(B)	Zn	2.
	(C)		(D)	Cr	
44.	"Diaptl	horesis" is a synonym of			
	(A)	plutonic metamorphism	(B)	regional metamorphism	Ē
	(c)		(D)		n
45.	The ch	emical composition of upper of	continent	al crust is that of	
	(A)	Granite	(B)	Diorite	Į.
	(C)	Gabbro	(D)	Basalt	
46.	_	ar fragments of darker g geneous granitic material are c		surrounded by more	or less
	(A)	Agmatites	(B)	Metasome	
	(C)		(D)	Metatexites	
47.	Which	among the following is least	stable mi	neral for weathering?	EF
	(A)	Quartz	(B)	Augite	
	(C)	Harris and the second of the s	(D)	Hornblende	
					100



48.	To whic	h of the following is t	he term	'Bouma	Sequence' ass	ociated wi	th?
	(A) (B)	Tsunami deposits Turbidite deposits			7.06		
	(C) (D)	Beach rock deposits Placer desposits			Lawrence Lawrence		
49.	Which o	one among the followi	ng is no	t a siliced	ous deposit?		
		ex Table 1		3	9 N		
	(A)	Breccia	*	(B)	Graywacke		
	(C)	Bauxite		(D)	Conglomerat	Ÿ.	
50.	Which o	one of the following is	correct	ly matche	ed?		
v R	(A)	Malanjkhand	_	Copper			
×	(B)	Mosabani	-	Bauxite			
	(C)	Khetri	-	Barite			
	(D)	Ingalthal	-	Iron ore			
51.	The spe	ecific gravity of Nephe	eline is				
	(A)	2.56 to 2.67		(B)	3.83 to 4.38		
	(C)	3.52 to 4.25		(D)	2.80 to 3.00		
		(*)				* -	
52.	Mica p	late is made up of		(66)) 4 7		
	(A)	Muscovite		(B)	Biotite		
	(C)	Phlogopite		(D)	Paragonite		
53.	Hypers	thene crystallises in					
	(4)	Orthorhombic		(B)	Monoclinic		
	(C)	Triclinic		(D)			
54.		one among the follow	ing is n	ot used a	s a refractory	mineral?	
	(4)	Combita		(B)	Fireclay	8.	
	(A)			(D)		•	
	(C)	Garnot		(-)			
55.	The pr	incipal producer of K	aolin in	India is	-v: , r		
	(A)	Tamil Nadu		(B)	Karnataka		
	(C)	1		(D)	Orissa		
	(0)			275			



56.	The hardn	ess of magnesite ranges from		
		.5 to 2.5 .5 to 4.5	(B) (D)	2.5 to 3.5 4.5 to 5.5
57.	According from an oprimeval S	originally hot, rarefied, gaseo	ietary us atn	system is believed to be formed nosphere which surrounded the
		lebular Hypothesis Cidal Hypothesis	(B) (D)	Planetesimal Hypothesis Protoplanet Hypothesis
58.	Mohorovi	icic discontinuity marks the ba	se of	
		nner core mantle	(B) (D)	core
59.	The Him	alayas is an example for		
	\ , ,	Residual Mountains Diastropic Mountains	(B) (D)	Volcanic Mountains Rocky Mountains
60.	The theomade up		es tha	t the lithosphere of the Earth is
	(A) (B) (C) (D)	seven major and several minor payers and seven minor payers and seven minor several major and several minor several major and several minor several minor and several minor several mino	plates r plate:	s ·
61.	The lan	dforms such as Eskers, Kettles,	Errati	ics and Varves are made by
	(A) (C)	Glaciers Rivers	(B) (D)	a Special Control of the Control of
62.	Shear f	olding is also known as	dia	
	(A) (C)	recumbent folding isoclinal folding	(B	
63.	Slicker	sides in faults record		
	(A) (C)	first movement first and last movement	(E	1 2

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64.	True fol	ding sometimes ref	fers to		silatenti see apas 1 100
	(A) (C)				flexure folding
65.	What is	the age of Deccan	volcanism in	terms	of millions of years?
	(A) (C)	50 60		(B) (D)	55 65
66.	The for large a known	rea of extent and	e sides of the represent con	uncor sidera	nformity are parallel and cover a able interval of time which are
	(A) (C)	angular unconformit		(B) (D)	disconformity non-conformity
67.	The res	solution of Landsat	IV MSS imag	es is	
	(A)	57 m 79 m		(B) (D)	65 m 110 m
68.	In an a	erial photograph, m	aximum drain	age d	ensity is observed over
	(A) (C)	Gabbro Phyllite			Granite Shale
69.	Closely photog	y spaced intersecting raph are seen as	g joints in bas	sic ign	eous rocks in a small scale aerial
	(A) (C)	fine texture coarse texture		(B) (D)	rippled texture . criss-cross texture.
70.	The ca	lcareous forms of F	oraminifera fi	rst ap	peared in
	(C)			(B) (D)	Ordovician Devonian
71.	The an	nmonoids became e	extinct in		
	(A) (C)	Jurassic Cretaceous		(B) (D)	Triassic Permian

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72. Which one of the following is correctly matched?			ed?	
	(A) (B)	Schloenbachia: Lower lias Ceratites: Jurassic		gramme gramme
	(C) (D)	Perispinctes : Triassic Baculites : Chalk	i e a	
73.	The trile	obite which does not belong to t	he Can	nbrian period is
	(A)	Olenellus	(B)	Paradoxides
	(C)	Olenus .	(D)	Phacops
74.	The Ma	krana marble is equivalent to		-30
	(A)	Lower Dharwar	(B)	Middle Dharwar
60	(C)	Upper Dharwar	(D)	Peninsular Gneiss
75.	Cu dep	osits at Khetri are associated wi	th	0 20 20
	(A)	Alwar quartzite	(B)	Ajabgarh schist
	(C)	Alwar slate	(D)	Ajabgarh limestone
76.	The Ba	irenkonda quartzites belong to		of make py y
	(A)	Kistna group	(B)	Nallamalai group
	(C)	Cheyyar group	(D)	Papaghni group
77.	Spot th	e odd one out :		
	(A)	Srisailam quartzites	(B)	Kolamnala shales
	(C)	Irlakonda quartzites	(D)	Bairenkonda quartzites
78.		y the correct order of age from o	ldest to	youngest for the Cretaceous
	(A)	Cenomanian - Danian - Senor	nian – ′	Гuronian
	(B)	Danian - Senonian - Turonian	ı – Cen	omanian .
	(C)	Cenomanian – Turonian – Sen		
	(D)	Turonian – Senonian – Cenom	ianian -	- Danian.

79.	When si crystal, t	milar faces occur in paral he crystal is said to possess	lel pairs o	on lower and upper sides of a
		7 - 40	(7)	- of summetry
		axis of symmetry	(B)	centre of symmetry
	(C)	element of symmetry	(D)	plane of symmetry
80.	In which	ı crystal system does majori	ty of mine	rals crystallise?
	(4)	Cubia austam	(B)	Tetragonal system
	(A)	Cubic system		Monoclinic system
	(C)	Orthorhombic system	(D)	Monochine
81.	Bireflec	tance is a property analogou	is to	
	(1)	hirofringance	(B)	biaxiality
**	(A)	birefringence	(D)	isotropism
	(C)	pleochroism	50/10/2 - 5 1000	
82.	The lea	ast angle of incidence for v nds to pass from a denser in	which there to a less de	e is total reflection when visible inser medium, is called
	(4)		(B)	critical angle
	(A)		(D)	And the second of the second o
	(C)	angle of dispersion	(D)	more and a second
83.	When nalyze	the vibration directions of a r, the section appears to be d	section co ark. It is s	incide with those of polarizer and aid to be the position of
	12/10/26	••	(B)	extinction
	(A)		(D)	
	, (C)	birefringence	(D)	Totation
84.	Positiv	e biaxial crystals, when inse	ertion of th	e gypsum plate yield isogyre as
	(4)	convex side yellow and co	oncave side	e blue
	(A)	• • • • • • • • • • • • • • • • • • • •	cave side v	ellow
	(B)) the contract of the contract	oncave side	e blue
	(C)	'1 11 and con	cave side r	ed .
	(D)			
0.5	The	whilition of prismatic cold	ours in the	e interior or on the surface of a
85.	Ine e	al is called	0 0	Tipen gara kana aya
	miner	ai is called		
	(4)) fluorescence	(B)	iridescence
	(A)	5 4 - N. Barton, 2000 and 11 - 12) phosphorescence
	(C)) Oparescence	× -	7

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86.	The Carlsbad, Baveno and Manebach twinning is commonly found in							
	(4)	olivine	(B)	mica				
	(A) (C)	pyroxenes	(D)	plagioclase feldspars				
87.	The min	eral Crossite is		2000				
	(A) (C)	orthoamphibole amphibole devoid of sodium	(B) (D)	clinoamphibole triclinic amphibole.				
88.	Which one of the following pairs is correctly matched?							
	(A)	Olivine -	Amphil	oole				
	(B)	Cordierite -	Leucox					
	(C)		Augite					
	(D)	Nepheline -	Analcit	e.				
	(D)	represent						
89.	Carlsba	ad law of twinning is character	istic of					
	(A)	albite	(B)	oligoclase				
a nati	(C)	microcline	(D)	orthoclase				
	(0)		- 11 - 8 AFR					
90.	Chemi	cal composition of Leucite is		w 1				
	(A)	NaAlSi ₂ O ₆	(B)	KAlSi ₃ O ₈				
	(C)	KAlSi ₂ O ₆	(D)	NaAlSi ₃ O ₈ .				
91.	Which	one of the following is the pro	per orde	er of Moh's scale of hardness?				
	(A) (B) (C) (D)	Calcite – Apatite – Fluorite – Orthoclase Calcite – Fluorite – Orthoclase – Gypsum Calcite – Fluorite – Apatite – Orthoclase Calcite – Orthoclase – Apatite – Quartz						
92.	Most o	of the gem quality of Corundur	n is obta	ined from				
	(A) (C)	pegmatites placer deposits	(B) (D)	metamorphosed deposits nepheline-syenites				

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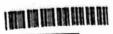
93. In	Beryl,	an increase in the alkali	content is accompanied by
	(A) d	lecrease in R.I. and incr	rease in specific gravity
	(B) d	lecrease in R.I and decr	ease in specific gravity
	(C) i	ncrease in R.I. and deci	rease in specific gravity
	(D) i	ncrease in R.I. and incr	ease in specific gravity
94. T	Copaz is	characterised by high r	elief, weak birefringence with
	(A)	+ ve ontic sign prismat	tic form and moderate 2v
	(D)	- ve optio sign, prisma	tic form and moderate 2v
	(B)	+ ve optic sign, prisma	tic form and high 2v
	(C)	+ ve optic sign, prisma	atic form and high 2V
		- ve optic sign, prisma	
95.	Zircon i	s a common accessory	mineral of igneous rocks particularly in
			(B) hypabyssal rocks
	(A)	volcanic rocks	(D) intermediate rocks
	(C)	plutonic rocks	X 2
96.	Which direction	one of the following on of cleavage?	is an example of fibrous silicate with single
		XXX - 11 - etamita	(B) Tremolite
	(A)	Wollastonite	(D) Kyanite
	(C)	Sillimanite	(-)
			io.
97.	Crysta	l system of Andalusite i	13
			(B) orthorhombic system
	(A)	hexagonal system	(D) triclinic system
	(C)	monoclinic system	(D)
98.	Which	of the following is a c	raton?
90.	,,		
	(A)) Eastern Ghats	
	(C		(D) Dharwar
10°0 2012	77 C-1		y plagioclase feldspar is characteristic of
99.	K-Iel	uspai ovoice in	
*.") spinifex texture	(B) orbicular texture
	(A (C	1 ' . forthire	(D) seriate texture
100		AT 1000	eation ratio (K + Na) / Al is
100.	. In pe		
	11	() <1	(B) = 1
	(1	7 .	(D) ≤1
	((/) ~ x	

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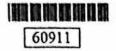
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101.	A gran	A granitic rock having equal amounts of plagioclase and alkali feldspar is				
	(A) (C)	rockallite adamellite	(B) (D)	enderbite trondhjemite		
102.	The moderived	ost distinctive features of Kin magmas are the high contents of	nberlite of	e compared with other mantle-		
	(A) (C)	Na and volatiles Ca and volatiles	(B) (D)	K and volatiles Fe and volatiles		
103.	mineral	itic rock composed of alkali felos like blue amphibole, apatite, son is called	dspars, phene	aegirine and various introduced etc. from an adjacent carbonatite		
	(A)	fenite	(B)			
	(C)	peridotite	(D)	granite		
104.	The co	onstant proportion in which ise is called	the tv	vo constituents simultaneously		
	(A)	eutectic.	(B)	solidus		
	(C)	liquidus	(D)	ternary eutectic		
105.	The typ	ical Ophitic texture in Dolerite i	ndicate	es that		
- 28	(A)	pyroxene has crystallised earlie	er than	plagioclase		
	(B)	feldspar has crystallised earlier	than p	byroxene ad simultaneously		
	(C) (D)	feldspar and pyroxene have cry feldspar and pyroxene have cry	stallis	ed alternatively		
106.	The eut	ectic ratio for the pair Diopside	and Ar	northite is		
12	(A)	35:65	(B)	58:42		
		88:12	(D)	65:35		
611		ii TE 😮 ii				
107.	The pro	per order of crystallisation in th				
	(A)	Amphibole - Pyroxene - Mica	– Qua	rtz		
	(B)	Pyroxene – Amphibole – Mica	– Qua	ΠZ ioo		
	(C)	Quartz - Pyroxene - Amphibole	- One	rtz		
	(D)	Pyroxene - Mica - Amphibole	– Qua	116		

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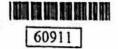
108.	Among the calcareous sedimenta formed by capillary action is	ry deposits, a nodular iron-rich calc sinter
	(A) tufa	(B) chalk
	(C) marl	(D) kankar
109.	The mineral used in the constructi	on of AFM diagram but not projected is
	(A) Muscovite	(B) Staurolite
	(C) Almandine	(D) Cordierite
	At many granite contacts, a zon country rocks. This mixed rock i	e of mixed rock separates granites from the scalled
*	(A) testemite	(B) volatile
<u></u>	(A) tectonite(C) andesite	(D) migmatite
111.		ned with increasing grades of metamorphism
112	(D) Biotite - Chlorite - Sill	Ilimanite – Biolite anite – Sillimanite imanite – Kyanite
		(B) meso-zone
ži.	(A) epi-zone (C) kata-zone	(D) para-zone
	10-2	and a second second
113	The mineral Spodumene is a	
	(A) clinopyroxene(C) amphibole	(B) orthopyroxene(D) feldspar
114	4. In lignite the moisture content	amounts to
	(A) 43%	(B) 33%
	(C) 23%	(D) 53%
11	-6 the following m	inerals does not exhibit polymorphism?
11		(B) Rutile
	(A) Andalusite (C) Orthoclase	(D) Biotite
	(C) Orthoclase	(N) - (N)



116.	A mineral that has steel grey colour-metallic lustre and two sets of perfect octahedral cleavage is				
	(A) (C)	Magnetite Barite		(B) (D)	Molybdenite Galena
117.	A massi industry		snow white or l	ight c	coloured gypsum used in cement
	(A) (C)	selenite satin spar	×	(B) (D)	gypsite alabaster
118.		coals that show to oil shales are	either of fresh	wate	er or marine origin and usually
*	(A) (C)	peat bituminous coal		(B) (D)	lignite anthracite
119.	Hemati	te is the ore mine	ral of		
	(A) (C)	aluminium asbestos		(B) (D)	copper
120.	The high-alumina clays with some non-plastic refractory flint and moderatel refractory plastic clays, which withstand temperatures of 2714°F to 2984°F are				
¥	(A) (C)	ball clays china clays		(B) (D)	fire clays bleaching clays
121.	Which	one is the heavie	st among all?		. I w
	(A) (C)	Asbestos Coal		(B) (D)	Barite Mica
122.	The m	ineral Phlogopite	consists of	æ	
	(A) (C)	magnesium mica		(B) (D)	sodium mica lithium mica
123.		ple of ground w will fall under the		alue	of 3,500 mg/L of total dissolved
	(A) (C)			(B) (D)	brackish water brine



124.	Which o	one of the following	ng has maximun	n hyd	raulic conductivity?
	(A)	Loess		(B)	Fine gravel
2.0	(C)	Coarse sand		(D)	Sandstone
125.	Capillar	ry zone of subsurf	ace water lies be	etwee	n = =001
14.774	(A) (B) (C)	ground surface a soil water zone a intermediate vac	and intermediate	vado	se zone
	(D)	water table and	impermeable roo	k	April 1997
126.	A relat	ively impermeabl d	e formation neit	her c	ontaining nor transmitting water
	(A)	aquiclude		(B)	aquifuge
ŧä	(C)	aquitard		(D)	aqua regia
127.	The pring/L i	robable electrical is	conductivity of	grou	and water having a TDS of 100
	(A) (C)			(B) (D)	356 μs/cm 256 μs/cm
128.	Impac	t testing of a stone	e is done to know	v its	1 100 1 3 2
	(A)) density		(B)	specific gravity
	(C	TO THE PROPERTY OF THE PARTY OF		(D)	toughness
129.	The abutn	effects of alterna- ments can be studie	te drying and v	vettin	g on the foundation as well as
	()) shear strength		(B)	modulus of elasticity
	(A (C			(D)	
130			g of tunnels, the	most	popular instrument used is
		\ mid_li+a		(B)	Tacheometer
	(A			(D)	F MARKET AND STORY
	(C) Flanciaoic			±



131.	 Ore for which the quantitative estimates are based on broad knowledge of geological character of the deposit and for which there are few samples measurements is called 						
	(A) (C)	measured ore inferred ore	(B) (D)				
132.	Resoili	ng dredge is employed in					
	(A) (C)	open cast mining alluvial mining	(B) (D)	underground mining caving method			
133.	The sci	ntillometer tubes have a photose	nsitive	е			
€:	(A) (C)	anode cathode	(B) (D)	electrode iodode			
134.	The detection of Ag as a pathfinder element in soil would imply the occurrence of						
	(A) (C)	arsenic deposit Cu deposits	(B) (D)	auriferous lode sulphide deposits			
135.	Geiger-	Muller counter is used in		* , -1			
	(A) (C)	gravity prospecting electrical prospecting	(B) (D)	magnetic prospecting radiometric prospecting			
136.	Which	Which of the following is indicative of rock-melting during faulting?					
	(A) (C)	Gouge Pseudotachylite	(B) (D)	Breccia Mylonite			
137.	fundam			w of current and operates on ergoing oxidation, is a source of			
	(A) (C)	Telluric current Wenner	(B) (D)	Resistivity Self-Potential			
138.	Nickel i	s concentrated in					
	(A)	Dunite Granite	(B)	Pegmatite Nepheline Svenite			



139.	Which is a measure of the total load of material a stream can move?				
	(A) (C)	Bed load Capacity	(B) (D)	Discharge . Suspended load	
140.	Graptol	ites are most common and abunda	nt in	and the state of t	
	(A) (C)	sandstone black shales	(B) (D)	limestone siltstone	
141.	Shells v	vith Ammonite suture appeared fi	rst du	nring	
E	(A) (C)	permian cretaceous	(B) (D)	triassic jurassic	
142.	Schulze	e's solution is used to separate mid	crofos	ssils from	
	(A)	shale	(B)	chert	
	(C)	coal	(D)	limestone	
143.	(A) (B) (C) (D)	low pressure and high degree of high pressure and high degree o high pressure and low degree o low pressure and low degree of	melt f mel f mel melti	ing ting ting ng	
144.	Magma incomp	a that commonly has anomalou patible elements is	isly i	nigh contents of various exotic	
	· (A)	carbonatite kimberlite	(B) (D)	Part of the second of the seco	
145.	Which	one of the following is correctly	matcl	ned?	
	(A) (B) (C) (D)	Uniaxial interference figure Anomalous interference colour	3	 Diamond Leucité Garnet Magnetite 	
146.	The sp	ecific gravity of Sillimanite is	,		
	(A) (C)	Company of the Compan	(B)	4.24 1.54	

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147.	47. Which one of the following rocks has the highest tensile strength?				engtn?	
	(A)	Sandstone	(B)	Slate Granite		
	(C)	Marble	(D)	Granne		
148.	Wollast	onite is derived as a product of				
	(A)	plutonic metamorphism of shale	es			
	(B)	cataclastic metamorphism				
	(C)	contact metamorphism of impu	re lim	estones		
	(D)	regional metamorphism of maf		The state of the s	- Fa- 1	
149.	Cyanid its ore?	e is commonly used to extract w	hich o	one of the fol	lowing metals fron	1
25	(A)	Gold	(B)	Silver '		
	(C)	Copper	(D)	Lead		
150.	Transc	urrent faults can be regarded as		*		
	(4)	adopted the action to the	(B)	strike-slip		
	(A)		(D)	transform		
	(C)	oblique-slip	(D)	Halistotin		
		4				
		***			((€)	

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