1.	What is the age of the Earth?											
	A)	3.5 b.y.			B)	4.5 t	<b>o</b> .y.					
	C)	5.5 b.y.			D)	6.5 t	<b>o</b> .y.					
2.	Who	se model explai	ns pene	planatio	n and	cycle of	erosion?					
	A)	Davis			B)	Penk						
	C)	King			D)	Gilbe	ert					
3.	Whic	ch of the follow	ing is a	coastal f	feature	?						
	A)	Kettle			B)	Eske	r					
	C)	Cirque			D)	Fjord						
4.	Which rock type is commonly seen along coral reef?											
	A)	Sandstone		-	B)	Lime	stone					
	C)	Marble			D)	Clay						
5.	Which of the following is formerly known as ERTS?											
	A)	IRS-1			B)	IRS-2	IRS-2					
	C)	Aryabhatta			D)	LAN	DSAT					
6.		ch GIS techniqu sheets?	e make	s a conti	nuous	map by	composting a	large nu	umber of			
	A) 1		ing		B)	Edge	matching					
	C)	Attribute edit		D)	Mosa	•						
7.	The tA) B) C) D)	To relate with Location of pure Location	h respect points fr with res	ct to topo com base spect to	osheet statio base st	n ation						
8.	In which type of data models a map is divided into a grid of squares or rectangular cells?											
	A)	Vector	B)	Raster	•	C)	Scalar	D)	Graphic			
9.	Hooke's law is applicable to:											
	A)	Elastic	B)	Plastic		C)	Rupture	D)	Flow			
10.	What	t is the condition	n for fo	rming a	norma	l fault?						
	A)	σ1 horizontal	1		B)	σ1 ve	ertical					
	C)	σ2 vertical			D)	σ2 ho	orizontal					
11.	Whic	ch one of the fol	llowing	is diffic	ult to r	ecogniz	e in the field?	•				
	A)	Angular unco	_		B)	_	onformity					
	C)	Disconformit		-	Ď)		unconformity					
							•					

12.	How	How the normal to a horizontal plane is represented on a stereogram?										
	A)	A vertical line		B)		-S line						
	C)	A point at the cen	tre	D)	A po	int at the prin	nitive circ	ele				
13.	Whic	h of the following is	s complem	entary	to the d	ip?						
	A)	Strike		B)		Hade						
	C)	Rake		D)	Pitch							
14.		In which fold the orthogonal thickness of the bed is greater in the hinge than in limb?										
	A)	Similar		B)	Dissi	milar						
	C)	Concentric		Ď)	Disha	armonic						
15.	Whic	Which one of the following is not an indicator of a fault?										
	A)	Mylonite	B)	Goug								
	C)	Breccia		D)	Cong	lomerate						
16.	With	With which of the following, transform fault is associated?										
	A)	Mid-ocean ridge	C,	B)	Island							
	C)	Subduction zone		D)	None	of the above						
17.	What	is the average dip of	of Benioff 2	zone?								
	A)	45° B)	55°		C)	65°	D)	75°				
18.	The v	The western continental margin of India represents?										
	A)	Active margin		B)	Passi	ve margin						
	C)	Subduction zone		D)	Island	d arc						
19.	From	From which of the following lands the western India got rifted?										
	A)	Australia B)	Antar	rctica	C)	Madgascar	D)	Arabia				
20.	Java-Sumatra is an example of which type of plate boundary?											
	A)	Divergent		B)		ergent						
	C)	Transform fault		D)	Colli	sion						
21.	Whic	h of the following h	ot-spots ca	aused [	Deccan v	olcanism?						
	A)	Marion B)	Kergı	ılian	C)	Reunion	D)	Karoo				
22.	Whic	h of the following for	orms the d	ominar	nt compo	onent of a gre	eenstone l	elt?				
	A)	Charnockite		B)		dalite						
	C)	Metabasalt		D)	Eclog	gite						
23.	Whic	h of the following is	s the young	gest?								
	A)	Pennsylvanian		B)	Devo							
	C)	Mississipian		D)	Perm	ian						

24.	What is the age of the Deccan traps? A) 45 Ma B) 55 Ma		C) 65 Ma D) 75 Ma
25.	<ul><li>Which of the following is subdivided</li><li>A) Neoproterozoic</li><li>C) Paleoproterozoic</li></ul>	d into F B) D)	Riphean and Vendian ? Mesoproterozoic Phanerozoic
26.	Which of the following shist belts is A) Shimoga C) Wynad	the you B) D)	oungest? Sargur Sathyamangalam
27.	Which is the smallest lithostratigraph A) Group C) Bed	hic unit B) D)	it? Member Formation
28.	Which is the chronostratigraphic equal A) System C) Stage	uivalent B) D)	nt of age? Series Sub-system
29.	Which unit in the Cuddapah basin is A) Kistna C) Kurnool	the you B) D)	oungest ? Papaghni Cheyair
30.	What is the age of Haimanta System A) Silurian C) Ordovician	B) D)	Devonian Cambrian
31.	Which is the oldest series of Jurassic A) Patcham C) Katrol	e of Cut B) D)	atch? Chari Umia
32.	What is the age of Tipam sandstone? A) Miocene C) Oligocene	B) D)	Eocene Paleocene
33.	Which one is correlated to the Warka A) Kudamkulam Limestone C) Manavalakurichi beds	allis? B) D)	Cuddalore sandstone Quilon Limestone
34.	With which rocks the Neyveli lignite A) Gondwana C) Tertiary	e depos B) D)	sits are associated with?  Mesozoic  Quaternary
35.	To which class trilobites belong to? A) Trilobita B) Cursta	.cea	C) Arthropoda D) Mollusca

36.	To which phylum the class gastropoda belongs to?										
	A)	Arthropoda	B)	Echinoderma							
	C)	Porifera	D)	Mollusca							
37.	Which	h of the following is most im	portant i	in the ammonoid characterization?							
	A)	Coiling	B)	Suture lines							
	C)	Siphuncle	D)	Septal necks							
38.	To wl	nich geologic age belemenite	s belong	to?							
	A)	Cretaceous	B)	Triasic							
	C)	Cambrian	D)	Devonian							
39.	Which	Which of the following is irregular echinoid?									
	A)	Holaster	B)	Salenia							
	C)	Pelstates	D)	Cidaris							
40.	Which	h of the following foraminife	era is are	naceous?							
	A)	Orbitolites	B)	Textularia							
	C)	Lagena	D)	Globigerina							
41.	Which	h of the following is a Gondy	wana flo	ra?							
	A)	Globigerina	B)	Goniopora							
	C)	Ptilophyllum	D)	Tetragraptus							
42.	Which	Which of the following is not a trilobite?									
	A)	Olenus	B)	Phacops							
	C)	Olenellus	D)	Productus							
43.	What is the age of Archaeopteryx?										
	A)	Early Jurrasic	B)	Late Jurrasic							
	C)	Early Triasic	D)	Late Triasic							
44.	To which crystal system, the class with higest symmetry belongs to?										
	A)	Isometric	B)	Tetragonal							
	C)	Monoclinic	D)	Triclinic							
45.	How	many horizontal reference ax	kes are th	nere in the hexagonal system?							
	A)	1 B) 2		C) 3 D) 4							
46.	Where	e will be the plot of the face	(001) on	a tetragonal crystal stereogram?							
	A)	At the centre	B)	On the primitive circle							
	C)	On the E-W line	D)	Between centre and primitive circle							
47.	What	is the interfacial angle between	een two a	adjacent trigonal prismatic faces?							
	A)	60 degrees	B)	120 degrees							
	C)	180 degrees	D)	240 degrees							

48.	In whi	ch crystal system epidote crys	tollizac'	)					
40.									
	A)	Tetragonal Manadinia	B)	Orhtorhombic Trialinia					
	C)	Monoclinic	D)	Triclinic					
49.	What o	does a Quartz compensator me	easure?						
	A)	Optic sign	B)	Refractive index					
	C)	Optic angle	D)	Retardation					
50.	What i	s the optic nature of Calcite?							
50.	A)	Uniaxial positive	B)	Uniaxial negative					
	C)	Biaxial negative	D)	Biaxial positive					
	C)	Diaxiai ilegative	D)	Diaxiai positive					
51.	Which of the following does not affect the interference colour of a mineral?								
	A)	Relief	B)	Thickness					
	C)	Birefringence	D)	Orientation					
52.	Which of the following does not show a regular variation from Enstatite to Ferrosilite?								
	A)	Mg content	B)	2V					
	C)	Birefringence	Ď)	Fe content					
53.	Which A)	of the following is not correct Calcite: high relief	et ? B)	Quartz : non pleochroic					
	C)	Cordierite : pleochroic haloes	s D)	Staurolite: biaxial negative					
54.	Which of the following exhibits twinkling?								
	A)	Andalusite	B)	Cordierite					
	C)	Calcite	D)	Tremolite					
55.	Which	of the following minerals has	the low	vest specific gravity?					
	A)	Magnesite	B)	Uraninite					
		Chromite	D)	Native gold					
56.		s the silicon : oxygen ratio in							
	A)	1:2	B)	1:3					
	C)	1:4	D)	2:7					
57.	Name respect	of the pyroxene with En, Fs and tively?	nd Wo	components of 40, 30 and 30					
	A)	Augite	B)	Ferroaugite					
	C)	Subcalcic augite	D)	Pigeonite					
58.	Which	of the following is not a mica	?						
J 0.	A)	Glauconite	B)	Zinnwaldite					
	C)	Vermiculite	D)	Lepidolite					
	<i>-,</i>		<i>-,</i>	r					

59.	Name of the plagioclase with An-75 and Ab -25?									
	A)	Andesine			B)	Bytow	nite			
	C)	Labradorite			D)	Oligoc	elase			
60.	Which	of the followin	g crysta	allizes i	n the is	ometric	system?			
	A)	Haematite			B)	Ilmeni	te			
	C)	Rutile			D)	Chrom	nite			
61.	Which of the following is caused by radiatio						ige?			
	A)	Migmatite		B)	Metan					
	C)	Myrmekite			D)	Radiolaria				
62.	Which of the following minerals has the highest amount of Ti in it?									
	A)	Ilmenite B)		Titanit	e	C)	Rutile	D)	Sphene	
63.	Which	of the follow	ing is	the sta	ble pha	ase at 3	300° C temper	ature	and 4 kb	
	A)		B)	Sillima	ınite	C)	Kyanite	D)	Mullite	
64.	Which	of the followin	g is pol	lvmorph	nous wi	th arago	onite?			
	A)		B)	Calcite		C)	Magnesite	D)	Ankerite	
65.	Which shows the major elements in the order of decreasing abundance in the crust?									
	A)	Si-Al-O		B)	O-Si-A	<b>N</b> 1				
	C)	Si-Al-Fe		D)	Si-Fe-					
66.	Which of the following is an HREE?									
	A)		B)	Sm		C)	La	D)	Yb	
67.	Which	of the followin	g is a c	halcoph	ile elen	nent?				
	A)		B)	Mn		C)	Zn	D)	Cl	
68.	Which	mineral precipi	itates at	t an env	ironme	nt of ve	ry low pH but	very hi	gh Eh?	
	A)	Gypsum			B)	Anhyd	rite			
	C)	, , ,								
69.	Where	is the position	of lime	stone fe						
	A)	Eh value of 0			B)		ue of +1			
	C)	Eh value of -1			D)	pH val	ue of 8			
70.		is the radioacti	ve isoto	ope of c						
	A)	Carbon-11			B)	Carboi				
	C)	Carbon-13			D)	Carboi	n-14			

71.	How r A)	nuch percentag 5	ge of the B)		s crust is	s made C)	up of sediment 20	ary roo D)	20 cks?
72.	Which A)	lava flow has Pahoehoe	a subm B)	arine er aa	uption?	C)	Ropy	D)	Pillow
73.	How t A) C)	o describe an ig Fine grained Medium grain	_	rock wi	th mean B) D)	Very	diameter of 6m fine grained e grained	m?	
74.	Which A)	of the followi Spinifex	ng textı B)	ures indi Seriate	_	gh-temp C)	oerature skeleta Cumulate	l cryst D)	
75.	Name mica?	a plutonic rock	with 3  B)	-	artz, 459 diorite		oclase, 20% pla Diorite	giocla D)	se and 5%  Tonalite
76.	Name A)	the volcanic ro Andesite	ock with B)	n SiO <sub>2</sub> o Basalt		% and C)	$(Na_2O + K_2O)$ Rhyolite	of 3 w D)	
77.	Which A) C)	is the correct P + F = C + 2 P - F = C + 2		ion of G	Gibb's Pl B) D)	P + F	ale? = C- 2 = C + 1		
78.	Which A)	ternary systen Ab-Or-An	_		s petrogo i-An	-	•	D)	Fo-Fa-Di
79.	Which A)	diagram discr ACF	iminate B)	s tholeii AKF	itic fron	n calc-a C)	lkaline? AFM	D)	QAP
80.	A)	of the followi Anorthosite Keratophyre	ng is an	ultrama	B)	ck? Dunit Carbo			
81.	Which A) C)	Arenite Arkose	ng is a s	sandstor	ne rich i B) D)	n felds <sub>j</sub> Marl Quart			
82.	What (A) (C)	is the term used Sparite Macrosparite	d to den	ote che	mically B) D)		tated carbonite esparite te	mud?	
83.	Which A) C)	of the following of the following Circon Kyanite	ng heav	y miner	ral indic B) D)	eates a r Ilmen Cassit		rovena	nce?

84.	Which of the following metamorphic facies  A) Granulite B)						is of highest pressure? Hornblende-hornfels				
	C)	Pyroxene-hor	nfels		D)	Sanidi					
85.	Which mineral is characteristic of blue-schist facies?  A) Kyanite B) Corundum										
	A)					Corun					
	C)	Cordierite			D)	Glauce	ophane				
86.	In whi	ch metamorphi	ic textu	res, the	grains s	how pre	eferred orientat	ion?			
	A)						roblastic				
	C)	Schistose			D)	Idiobla	astic				
87.	Which	of the following	ng is a r	nantle r	ock?						
	A)	Ophiolite	B)	Spilite		C)	Keratophyre	D)	Eclogite		
88.	Which	of the following	ng is no	t a high	grade r	netamo	rnhic rock?				
00.	A)	Charnockite				C)	-	D)	Phyllite		
0.0	**** 1	0.1 0.11		. 0 1		•	· 0				
89.	Which A)	of the following Gold	ng is no B)	t found Diamo		er depos C)	Sits? Chromite	D)	Graphite		
	A)	Gold	D)	Diamo	ilu	C)	Cinonine	D)	Grapinic		
90.	Which	of the following	ng is no	t a copp	er mine	eral?					
	A)	Pyrite	B)	Chalco	pyrite	C)	Bornite	D)	Cuprite		
91	What is the reservoir rock for Bombay High oil field?										
	A)	Sandstone	B)	Limes		C)	Shale	D)	Clay		
92.	In which oil field is Ankaleswar?										
92.	A)	In which oil field is Ankaleswar?  A) Bombay High B)					1				
	C)	Cambay Basin			D)	Assam Cauve	ry Basin				
0.2	***		1. 1.	•. 1							
93.	What is the age of Neyveli lignite deposits?  A) Paleozoic B) Mesozoic										
	C)	Tertiary			D)						
	C) Tertiary D) Quaternery										
94.	-	its of which of	the foll	owing is				ment?			
	A)	Galena			B)	Magne Bauxit					
	C)	Pyrolusite			D)	Dauxii	.C				
95.		is the radioact	ive mat	erial in							
	A)	Ilmenite			B)	Monaz					
	C)	Sillimanite			D)	Garnet					
96.	Which	of the following	ng is a ι	ıranium	mine?						
	A)	Manavalakuri	_		B)	Jadugu					
	C)	Karnool			D)	Agnig	undala				

97.	By wh A) C)	nat process Ilme Magnetic Electrostatic	enite is	separate	ed from B) D)	Radio Vibrat	active	at Chav	/ara?
98.	Which A) C)	n metal is mined Pb Co	d at Zav	war mine	es? B) D)	Th Ta			
99.	With (A)	which rock type Felsic Ultramafic	es the c	hromite	deposit B) D)	Metar	rnataka are as norphic nentary	sociated	1?
100.	Ores (A)	of which metal Fe	is assoc B)	ciated wi	ith kodı	uritic ro C)	cks? Mn	D)	Mg
101.	Which A)	n state has abun Bihar	dant gy B)	psum de Odisha		? C)	Rajasthan	D)	Gujarat
102.	Which A) C)	n gem is market Diamond Corundum	ted in Iı	ndia as '	vaidoor B) D)	Topaz	z oberyl		
103.	With (A)	which of the fo Mineral prope Ore beneficia	erty	the term	n fusair B) D)	Coal p	ociated? petrography tone grading		
104.	Which A) C)	of the following Gravity Seismic	ng is m	ore appl	icable i B) D)	n grour Magn Resist	etic	ration?	
105.	ore re	n is the term use serve? Proved Indicated	ed to re	fer to the	B) D)		ble	t of a n	neasured
106.	Which porosi	n logging device ity? Caliper	e was f	irst deve Sonic	eloped t	by petro C)	leum industry	as a mo	easure of
107.	Which A)	n deposit can be Gold	e explor B)	ed by gr Chron	-	urvey? C)	Bauxite	D)	Graphite
108.	Which A)	n exploration da Magnetic	ata has l	Milligal Radio		t? C)	Seismic	D)	Gravity

109.	Which A)	n is the cheapes Diamond	st and fa B)	astest dril Percuss	_	ethod? C)	Auger	D)	Rotary		
110.		xy confining be	ed can b	e classed							
	A)	Aquifer			B)	Aquio					
	C)	Aquitard			D)	Aqua	duct				
111.	The z	one of saturation		oe regarde	ed as:						
	A)	Vadose zone			B)	Perch	ed aquifer				
	C)	Phreatic zone	2		D)	Zone	of aeration				
112.		Which of the following quantifies the ability of a porous medium to transport water?									
	A)	Reynold's nu	mber		B)	Hvdra	aulic conduct	ivity			
	C)	Porosity			D)	-	eability	- , - <b>-</b> ,			
113.	What	is the average	TDS (n	no/1) in sti	ream w	zater?					
115.	A)	100	100 (11	116/1) 111 50	B)	500					
	C)	1000			D)	1500					
	C)	1000			D)	1300					
114.		n of the following	ing con	nmonly tr							
	A)	Tsunami			B)		quake				
	C)	Tide			D)	Nucle	ear explosion				
115.	Which A) B) C) D)	Open cast ald Underground Both open ca Trenching	one l alone		-	oiting c	oal?				
116.	Which	n of the following	ing para	ameters de	oes not	appea	r in Darcy's la	aw?			
	A)	Permeability			B)		aulic conduct				
	C)	Hydraulic gra			D)	Disch		,			
117.	Which	n of the following	ing tern	n is synon	iymous	s with 1	aterite?				
	A)	Bauxite	B)	Saproli	te	C)	Rhodonite	D)	Teris		
118.	Which A)	n of the following Chloride	ing con B)	taminants Carbon		nking v C)	vater is more Arsenic	dangero	us? Fluoride		
110	XX71 4	· 41 . C	1 4	. 41	41.2	40					
119.		is the S-wave	-		rtn's c		20 1222/2	D)	40 1/-		
	A)	4 km/s	B)	8 km/s		C)	20 km/s	D)	40 km/s		
120.	What	is the highest r	nagnitu	ide of eart	thquak	e meas	ured so far?				
	A)	9	B)	9.5		C)	10	D)	10.5		

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