22711

120 MINUTES

1.	The earliest known calcareous-walled foraminifera A) Fusulinids B) Spirillinids C)	
2.	virtue of having originally lived there collectively: A) Biocoenosis B) Cya	
3.	Which of the following is correct regarding to Chondrites (CC) Groups with their typical example A) CO – Alais; CV – Murchison; CI – Kaidun; CB) CO – Alais; CV – Kainaz; CI – Kaidun; CM C) CO – Kaidun; CV – Allende; CI – Murchison D) CO – Kainaz; CV – Allende; CI – Alais; CM	es? CM – Kainaz – Allende n; CM – Kainaz
4.	canyon with steep rock sides:	•
	A) Buttress Dam B) Gravity Dam C)	Arch dam D) Coffer Dam
5.	called:	orm boundary with Arabian Plate, is erg Ridge
	,	a Trench
6.	5 5 1 7 1 5	n rocks result in cleavage. Strain Slip D) Shear
7.	The Concept of Land Bridge Theory was first prop	oosed by:
	, ,	Venetz Wegener
8.	,	<u> </u>
		t II - <u>Krumbein Phi (Φ) Scale</u>
	a. 2 to 64	-6 to -8
	b. $\frac{1}{256}$ to $\frac{1}{16}$	4 to 8
	c. $\frac{1}{16}$ to 2	-1 to 4
	d. 64 to 256 4.	-1 to -6
		2, c-1, d-3 2, c-3, d-1

9.	The United Nations Framework Classification (UNFC) for energy and mineral resources consists of a system. A) Two-dimensional B) Three-dimensional
	C) Multidimensional D) One-dimensional
10.	The metamorphic rock formed by the contact between mudstone / shale or clay rick and a hot igneous body:
	A) Phyllite B) Hornfels C) Slate D) Amphibolite
11.	 Chromium and titanium ores are examples of respectively. A) Metasomatic and Hydrothermal deposits B) Dissemination and Injection deposits C) Late and Early segregations D) Early and Late segregations
12.	The largest and most rapid global sea level rise event of the last deglaciation characterized by ~20 m global mean sea level rise within 500 years. A) Meltwater Pulse 2 B) Meltwater Pulse 1A C) Meltwater Pulse 1D D) Meltwater Pulse 1C
13.	The 'Binary Star Hypothesis' on the origin of Solar System was propounded by: A) H. N. Russell in 1937 B) C. F. Weizacker in 1944 C) Otto Schmidt in 1944 D) Jeans and Jeffreys in 1918
14.	In an artesian well condition the piezometric surface will: A) be within the aquifer B) coincide with the local water table C) be above the ground surface D) occur below the aquifer
15.	logging is the electrical well logging method highly useful to delineate clar dominated saline water zones. A) Resistivity B) S. P. C) Sonic D) Caliper
16.	 Which of the following statements is incorrect? A) Rhyolites have more than 66% SiO₂ content and are classified as acid igneous rocks. B) The IUGS classification of Igneous rocks is strictly a quantitative mineralogical classification. C) The most popular chemical classification scheme of Igneous rocks is Total Alkal Silica (TAS) classification. D) The CIPW classification is based on the alumina saturation.
17.	The simplest vector data structure in GIS is data model. A) Topological B) Discrete C) Spaghetti D) Hybrid topological

	irreg	gular topography.		Č				
	_	Flooding	B)	Basin o	r Percolative	Гank		
	C)	Ditch and Furrow	D)		ge Pits and Sh			
19.20.	Chool 1. 2. 3. 4. A)	Greenhouse gases cause green release heat in all directions. Carbon monoxide and Nitroger The global warming impact o dioxide over a 100-year period. In global warming temperature 2 only B) 1 and 4 on tigraphic units taken at random w. Daonella Limestone b) N	he foll shouse n dioxi f meth of the ly	lowing: e effect by ide are ha nane is 2. e Stratosp C)	y absorbing in a surmful greenhous great there increases 4 only assic successione c) (ouse gaer than a. D) on of	ases. That of car and 3 on	rbon
		correct hierarchical order of the the oldest to the youngest is:	ese ui	nits acco	rding to their	stratig	graphic posi	ition
		$d \to a \to e \to c \to b$ $b \to e \to d \to c \to a$	/					
21.	a. T b. C c. T d. E	ch the theories/concepts of morphologists / geologists in List List I heory of Slope Replacement concept of Geographic cycles heory of Parallel Slope Retreat elements of Slope and Slope evolution a-4, b-3, c-2, d-1 a-3, b-4, c-2, d-1	ution B)	List 1 1. 2. 3. 4. a-4, b-1 a-3, b-4	III Alan Wood Lester Charl Walther Pen William Mo	es King ck	g	ated
22.		- Sequence Boundary is the type I fall exceeds the rate of subsider Type-2 B) Type-1		the depos	•		ak.	f sea
23.	diag	symmetry: 3 axial axes of 4-foldonal axes of 2-fold symmetry metry – present, is characteristic Normal Class – Hexagonal Sys Normal Class – Orthorhombic Normal Class – Cubic System Normal Class – Monoclinic Sy	; 3 a of stem Syster	xial plan	_		•	-

18. ----- method is the artificial groundwater recharge method most suited for areas with

24.	A)	- is a Kimberlitic Plagioclase felds			al. B)	Pyrochlo	ore		
	C)	Chromium diops	-		D)	-	an monazite		
25.		law is the law sion velocity.	which	states tha	at the	distance	to a galaxy	is propo	rtional to its
	A)	Newton's	B)	Kirchho	ff's	C)	Kepler's	D)	Hubble's
26.	A)	Thematic Mapper Whiskbroom	used in		B)	Pushbro	om	ner.	
27.		Hyperspectral th the important rrence in List-II. List I	Gond		al Fi	Along-tr elds of l st II		-I with t	he states of
	a Si	ngrauli Coalfield		1		rashtra			
		aniganj Coalfield			Jhark				
		irdih Coalfield				Bengal			
		amptee Coalfield				iya Prade	sh		
	A)	a-3, b-4, c-2, d-1			B)	a-4, b-3,	c-2 d-1		
	C)	a-2,b-1, c-3, d-4	_		/	a-4, b-3,	,		
28.	-	popular method of image: Interactive tracin			rsion B)		reen digitizing	g on top	of an ortho-
		Head-down digit					p digitizing		
29.	The A) B) C) D)	world's longest si Taihang Tunnel, Atal Tunnel, Ma Laerdal Tunnel, Seikan Tunnel,	Taihai nali, In Aurlan	ng, China ndia nd, Norwa	ay	nnel:			
30.		ch of the followings is incorrect? In Structural Geoffor structural ar	ology v nalysis	ve use the	e top l	nalf of the	e Spherical Pr	ojection	
	C) D)	'π diagram' is pr On a stereogram In a cylindrical f	the Bet	a axis (B		-	-		
31.	The in Inc	largest on-shore p	oroduce	er of crud	de oil	and seco	ond largest pro	oducer of	f Natural gas
	A)	Gujarat	B)	Rajastha	n	C)	Maharashtra	D)	Assam

32.	 Dott's classification scheme of sandstones is based on: A) Grain size and tectonic setting of occurrence. B) Relative abundance of quartz, feldspars and rock fragments. C) Textural and structural features. D) Mineralogy of framework grains and on type of matrix present in between the framework grains.
33.	Cross-stratification in tidal dominated areas can lead to the formation of bedding. A) Flaser B) Epsilon cross C) Herringbone cross D) Lenticular
34.	The Combined Heat and Power (CHP), which is the simultaneous production, in a sequential process, of electricity (mechanical energy) and useful heat (thermal energy) from a single fossil energy source is known as A) Congregation B) Cogeneration C) Consecration D) Cogitation
35.	The first country to give importance to Environmental Impact Assessment (EIA) through its National Environmental Protection Act (NEPA) of 1969: A) Netherlands B) United States C) Canada D) Australia
36.	Match the list of ancestors of Horse in List-I with corresponding Geological Periods in List-II List I a. Miohippus 1. Pliocene b. Pliohippus 2. Oligocene c. Epihippus 3. Miocene d. Merychippus 4. Eocene A) a-1, b-2, c-3, d-4 C) a-1, b-2, c-4, d-3 B) a-2, b-1, c-3, d-4 C) a-2, b-1, c-4, d-3
37.	The molasse facies of sediments of thick non-marine conglomerates, is deposited in: A) Trench-Slope Basins B) Aulocogens C) Oceanic Rift Basins D) Foreland Basins
38.	The correct sequence which shows the decreasing abundance of chemical elements in the Earth's (Continental) crust. A) Si \rightarrow Fe \rightarrow O \rightarrow Ca \rightarrow Al B) O \rightarrow Si \rightarrow Al \rightarrow Fe \rightarrow Ca C) Fe \rightarrow Si \rightarrow O \rightarrow Al \rightarrow Ca D) O \rightarrow Fe \rightarrow Si \rightarrow Ca \rightarrow Al
39.	damp is the term given to the mixture of unbreathable gases found in underground coal mines, formed when oxygen is removed from the mine and is largely replaced by nitrogen, carbon-dioxide, argon and water vapour. A) Fire B) Stink C) White D) Black

40.	Match the	types	of	metamorphic	facies	series	with	their	corresponding	geothermal
	gradients.									

List I -Metamorphic facies series

List II - Geothermal gradients 1. $\sim 20^{\circ} - 40^{\circ}$ C/km

- a. Sanbagawa facies series
- b. Barrovian facies series
- c. Buchan facies series
- d. Franciscan facies series
- 2. < 10° C/km 3. 10° 20° C/km 4. 40° 80° C/km

- A) a-4, b-3, c-1, d-2
- a-3, b-1, c-2, d-4 B)
- a-3, b-1, c-4, d-2 C)
- D) a-1, b-3, c-4, d-2
- 41. What are the climate factors that influence the ratio of oxygen isotopes in ocean water?
 - Altitude and Latitude
 - Ocean currents and Sea waves B)
 - C) **Evaporation and Condensation**
 - Continentality and Topography D)
- Theory of ---- is the theory which proposes that once a species appears in the fossil 42. record, the population will become stable, showing little evolutionary change for most of its geological history.
 - A) Phyletic Gradualism
- B) Development and Genetic Homeostasis
- Geographic Speciation C)
- Punctuated Equilibria D)
- 43. Choose the correct sequence of arrangement of the major Peninsular River Systems based on their lengths from the longest to shortest.
 - Godavari → Krishna → Narmada → Mahanadi → Kaveri → Tapi A)
 - B) Narmada → Godavari → Kaveri → Krishna → Mahanadi → Tapi
 - C) Krishna → Godavari → Kaveri → Narmada → Mahanadi → Tapi
 - D) Narmada → Krishna → Godavari → Kaveri → Tapi → Mahanadi
- 44. Match the important limestone formations of Indian stratigraphy in List-I with the corresponding Groups in List-II.

List I

List II

- a. Vempalli Limestone
- 1. Jaintia Group
- b. Sylhet Limestone
- 2. Semri Group
- c. Kajrahat Limestone
- 3. Papaghni Group
- d. Nodular Limestone
- 4. Bagh Group
- a-4, b-3, c-1, d-2 A)
- B) a-1, b-3, c-2, d-4
- C) a-3, b-1, c-2, d-4
- a-3, b-1, c-4, d-2 D)
- 45. The normal range of salinity of sea water is between----- grams per litre.
 - A) 200 - 207
- B) 33 - 37
- C) 50 55
- D) 25 30

46.	 Which of the following factors do not contribute to significant eustatic sea level changes? A) Subsidence or uplift of the earth's crust due to growth or erosion of mountains B) Changes in total ocean water mass by ice sheet runoff C) Changes in the size of the ocean by tectonic activities like sea floor spreading D) Density changes of the sea water by thermal expansion
47.	Which of the following is incorrectly matched? A) Stull Stoping: Unsupported mining method B) Longwall Mining: Caving method C) Cut and Fill: Supported mining method D) Strip mining: Open cast mining method
48.	The characteristic metamorphic texture made of sigmoidal or reverse S-shaped trails of mineral inclusions in poikiloblastic crystals, especially garnets and staurolite, found in regionally metamorphosed rocks: A) Corona texture B) Hour-glass texture C) Kelyphitic texture D) Helicitic texture
49.	The Barrovian prograde succession of index minerals produced during regional metamorphism of pelitic rocks: A) Talc → Muscovite → Quartz → Staurolite → Garnet → Kyanite B) Chlorite → Scapolite → Diopside → Sphene → Sillimanite → Apatite C) Chlorite → Biotite → Garnet → Staurolite → Kyanite → Sillimanite D) Scapolite → Chlorite → Garnet → Sphene → Sillimanite → Kyanite
50.	Le Chatelier's principle is also called the: A) Equilibrium law B) Periodic law C) Law of Thermodynamics D) Law of Multiple proportions
51.	correction is the gravity correction which takes into account the fact that the gravity measurement is usually at a different elevation than the reference ellipsoid at the measurement latitude and longitude. A) Free air B) Isostatic C) Bouguer plate D) Terrain
52.	 Which of the following statements regarding drilling methods is incorrect? A) Percussion Rotary Air Blast drilling is also known as Down the Hole drilling. B) Calyx drill is also called Shot drill. C) Reverse circulation drilling is slower and costlier than diamond drilling. D) Diamond drilling can drill hole in any direction and has the ability to penetrate hard and compact rock formations.
53.	The type of breaker waves that occur when long wave period, low amplitude swell

waves approach moderately steep shores:

A) Plunging breakers
B) Surging breakers
C) Spilling breakers
D) Collapsing breakers

54.		ales which will b 1:50,000 B)		ic of a	_	scale map: 1:250,000	D)	1:100,000	
55.	the exc	correction is the cess mass underly rerrain B)	ying observati	on poi	nts hig				
56.	List I a. Eric b. Vio c. Va	the following - Plant Indicator ogonium ovalifol ola calaminara llozia candida uisetum arvense		1. 2. 3.	I - <u>M</u> Zinc Gold Urani Diam				
		a-4, b-2, c-3, d-1 a-1, b-3, c-4, d-2		/		o-1, c-4, d-2 o-1, c-2, d-4			
57.	Which of the following statements regarding Vertical Exaggeration in aerial photographs is incorrect ? A) Vertical Exaggeration is directly related to the photographic separation. B) Vertical Exaggeration has inverse relation with camera height. C) There is a direct relation between Air-base and Vertical Exaggeration D) Vertical Exaggeration is said to vary directly with camera focal length.								
58.		type of Digital In Vector	mages are JPEO B) Range	G, TIF	F, GIF C)	F, PSD AND Pi Raster	NG? D)	Binary	
59.		pelongs to the Ge LANDSAT	osynchronous B) SPOT	Orbit		of satellites. INSAT	D)	IRS	
60.		aults are low ang Gravity	gle normal faul B) Detachi		_	nal tectonic sig Listric	gnificanc D)	e. Wrench	
61.	geoma A) H	ypothesis states t gnetic field as se Hess's Γaylor's			curs. Wege			reversals in the	
62.		oil in India is als Red B)		e 'Om		group'. Alluvial	D)	Laterite	
63.	mamm A) S	nd of the Pleistonals. This mega-f South America Africa			nt is m		many g	genera of large	

64.	Match the type of light/condition used for observing optical properties of minerals under microscope in List-I with the optical property observed in List-II. List I a. Crossed Nicols b. Ordinary Light c. Convergent Light d. Polarized light 4. Refractive Index								
	A) a-4, b-3, c-1, d-2 C) a-2, b-1, c-3, d-4 B) a-3, b-4, c-1, d-2 D) a-3, b-4, c-2, d-1								
65.	The degree of freedom (F) along the cotectic boundary and at the ternary eutectic point for ternary phase diagram at a fixed pressure. A) Along cotectic boundary, $F = 0$, at ternary eutectic point, $F = 2$ B) Along cotectic boundary, $F = 1$, at ternary eutectic point, $F = 2$ C) Along cotectic boundary, $F = 1$, at ternary eutectic point, $F = 0$ D) Along cotectic boundary, $F = 2$, at ternary eutectic point, $F = 0$								
66.	The longest known half-life of any radioisotope that undergoes α-decay. A) Bismuth-209 B) Platinum-244 C) Uranium-236 D) Radium-228								
67.	Goldschmidt's geochemical classification of the elements is based on their: A) abundance on the earth's upper continental crust B) degrees of stability within the earth's crust C) abundance in the meteoroid materials D) chemical affinities for various earth materials								
68.	The term 'Geographic Information System' was first coined by: A) Howard Fischer B) Roger F. Tomlinson C) Jack Dangermond D) Charles Picquet								
69.	Presence of Mesosaurus fossils of Permian age between which of the following two landmasses provides the most noticeable supporting evidence for the Continental Drift Theory? A) India and Australia B) Africa and South America C) North America and Africa D) Antarctica and Africa								
70.	Match the GNSS in List-I with the countries operating them in List-II List I a. GLONASS 1. Japan b. BeiDou 2. Peoples Republic of China c. NavIC 3. Russian Federation d. QZSS 4. India A) a-3, b-2, c-4, d-1 C) a-4, b-2, c-3, d-1 B) a-2, b-3, c-1, d-4 D) a-3, b-2, c-1, d-4								

71.		e height of mounld be the highest i			ered f	rom t	he ocean floor,	which o	of the followin	g
	A) C)	Mauna Kea Mauna Loa			B) D)	Mount Kilimanjaro Nanga Parbat				
72.		Who among the following is known a Engineering?					ner of Soil Mech	anics a	nd Geotechnica	al
	_	Karl von Terzag Ralph B. Peck	shi		B) D)	Arthur Casagrande Charles Augustin Coulomb				
73.		total number of cr			-			-		e
	A)	32 and 230	B)	32 and	320	C)	36 and 360	D)	23 and 26	
74.	Whi A) C)	ich of the following pairs of silicate Sorosilicates : Feldspar l Nesosilicates : Hornblende l				Tekt		vine		
75.	Cho A)	ose the odd one fr Celestite	om an B)	nong the Apatite		ving n C)	ninerals: Monazite	D)	Pyromorphite	
76.	The A)	oldest dated mine Mica	ral on B)	the earth Topaz	ı's cru	st: C)	Zircon	D)	Rutile	
77.		ch the Principal I ses in List-II.	unar j	phases ir	n List-		-	ing Inte	ermediate Luna	ır
	a F	<u>List I</u> ull Moon – Last (Duarte	r	1.	<u>List II</u> Waning Crescent				
	b. N	lew Moon – First	Quarte	er	2.	Waning Gibbous				
	c. Last Quarter – New Moon d. First Quarter – Full Moon					Waxing Gibbous Waxing Crescent				
	A) a-3, b-1, c-4, d-2 C) a-2,b-4, c-1, d-3					a-4,b-2, c-1, d-3 a-2, b-4, c-3, d-1				
78.	Whi A)	ch of the followin It is used to m	_		_	-	•			h
	B) C)	respect to north It is used in con When the Comp	oass-c	linomete	r is or	iented	l with the comp	ass win		
	D)	the magnetic need The Compass-cl								
79.	The	earth's deepest or	eratio	nal unde	rgroui	nd mir	ne:			
	A)	Moab Khotsong								
	B)	Kidd Creek Cop	-			_anada	a			
	D)	C) Mponeng Gold Mine, South AfricaD) Kolar Gold Fields, India								

80.	Agglomeration is a metallurgic fall under the process of agglo		ore b	eneficiation. The	metho	od that does not
	A) Sintering B) Car		C)	Briquetting	D)	Pelletizing
81.	texture is the type of tex	ture exhibite	d by K	Comatites.		
	2 1	nifex	C)	Spherulitic	D)	Seriate
82.	Match the list of long-lived petrogenetic applications in Li <u>List I</u>	-	respon			•
	a. ¹⁴⁷ Sm - ¹⁴³ Nd	1. 1.26	x 10 ⁹	years		
	b. ²³² Th - ²⁰⁸ Pb	2. 1.06				
	c. 40 K - 40 Ar	3. 1.40	$\times 10^{10}$	years		
	d. ⁸⁷ Rb - ⁸⁷ Sr	4. 4.88	x 10 ¹⁰	years		
	A) a-4, b-3, c-2, d-1	B)	a-2, 1	b-3, c-1, d-4		
	C) a-3, b-2, c-1, d-4	D)	a-2, 1	b-3, c-4, d-1		
83.	The law of faunal succession v A) Nicholas Steno C) Georges Cuvier	was first reco B) D)	Willi	iam Smith	g of the	e 19 th century by:
84.	Which of the following Moclassification is characterized but temperature range from lov A) Boreal B) S	by a climate	regin	ne of 'Lower am'?	ounts	
	,		,		,	
85.	List I and List II given below foliations. Match the classes o List I a. Disjunctive b. Fine c. Compositional d Crenulation		n List-	I with their types		
	A) a-2, b-3, c-1, d-4 C) a-1, b-4, c-3, d-2	B) D)		b-1, c-2, d-3 b-1, c-3, d-2		
86.	If the hinge line, formed when plunges away from a high point A) Dome B) Dep			a:	each o	ther are joined, Culmination
87.	The other name for Crushing S A) Shear Strength C) Compressive Strength	Strength of a B) D)	Tens	ng stone or rock: ile Strength sverse Strength		

88.		imperceptibly ence of gravity		steady dov	vnwar	d mover	ment of wet s	oil or	rock under the	he
	A)	Avalanche	B)	Creep		C)	Slide	D)	Earthflow	
89.		ch of the follow	_		-					
	A)	QGIS	B)	GRASS-G	IS	C)	MapInfo Pro	D)	ILWIS	
90.	-	ing Spectrosco				_				
	A)	Microwave R			B)		l Infrared Ren Remote	note		
	C)	Hyperspectral	I Kem) (C	D)	V ISIUIC	Kemote			
91.		Karur-Kamban hern Granulite			r (KKI	PT) Shea	ar Zone lies wi	ithin	Block of the	he
	A)	Salem	B)	Madurai		C) N	ilgiri	D)	Madras	
92.		method of drill					y popular for	drilling	g large-diamet	er
		noles in uncons Reverse-circu				ations.				
	A) B)	Air Rotary Mo		Kotary Ivie	tillou					
	C)	Cable-tool Dr	illing							
02	D)	Rotary-Percus				:C:1	11 1 4	:4 .		
93.	A)	storage coeffici Permeability	ient of	an unconfi			n correspona t cific Yield	O ITS		
	C)	Specific Reter	ntion		D		eific Discharge)		
94.	Moto	th the following	r roggi	rding Froth	Floats	ution Pro	oogg in oro bor	nafiaint	ion	
94 .		I - <u>Chemicals/R</u>				II - <u>Exan</u>		ienciai	1011	
		epressants			1.		Cyanide			
		ctivators			2.	-	Canthate			
		ollectors			3.		Sulphate			
	a. Fi	others			4.	Pine Oi	1			
	A)	a-2, b-3, c-4,	d-1		B)	a-1, b-3	, c-4, d-2			
	C)	a-3, b-1, c-2,	d-4		D)	a-1, b-3	, c-2, d-4			
95.	Choc	ose the incorre	ct stat	ement rega	rding t	he geoch	nemical dispers	sion of	elements.	
	A)	Primary dispe	rsion	halos are th	e resu	lt of hydi	othermal fluid	ds.		
	B)	The metal val		-						
	C) D)	Secondary dispersional Primary	-						_	rv
	Σ)	dispersion hal		naios are c	isaarry	inacii ii	iore widesprea	uu tiiui	i the seconda	1 9
96.	The	process of su	iper-co	ontinent fo	rmatio	on and o	destruction vi	a repe	ated cycles	of
-		ion and destruc		of the ocean	ic crus				<i>J</i> ~	
	A)	Werner	B)	Milankovi	tch	C) W	/ilson	D)	Hutton's	

97.	drift is the movement of sedi an angle to the shore but recede st A) Backwash B) Rip cur	traight do	wn the		ı zig-zag	
98.	Closely spaced contour lines in a A) Gently sloping C) Flat	topograp B) D)		ly sloping	nd.	
99.	Match the important glaciations corresponding Geological Periods List I a. Karoo b. Huronian c. Marinoan d. Andean-Saharan A) a-2, b-3, c-1, d-4 C) a-4, b-2, c-1, d-3	1. Cryo 2. Side 3. Carl 4. Late B) a	I. II. Ogenian Prian-Rhoonifero Ordovi -3, b-2,	nyacian bus-Permian ician-Silurian	story in	n L:ist-I with
100.	Which of the following is not an deposits? A) Suitable pathways for the m B) Long continued crustal stab C) Proper physico-chemical en	Thich of the following is not an essential condition for the formation of hydrotherma eposits? Suitable pathways for the migration of ore bearing fluids through the rocks Long continued crustal stability for the accumulation of deposits Proper physico-chemical environment for the deposition of ore minerals				
101.	The Manganese Province of Balas Pradesh and Maharashtra represer A) Gondite B) L		e of dep		the star D)	-
102.	Which of the following is the correct sequential arrangement of 'Waste Hierarchy' of Integrated Solid Waste Management from the 'Least favoured' to the 'Most favoured'? A) Recycling → Recovery → Reuse → Reduction → Disposal. B) Reduction → Reuse → Recovery → Recycling → Disposal C) Reuse → Recycling → Recovery → Disposal → Reduction D) Disposal → Recovery → Recycling → Reuse → Reduction					
103.	The process of downward movem A) Intrusion B) Infiltration			ater is called: Diffusion	D)	Insertion
104.	 The Champaner Group of rocks b A) Archaean stratigraphy of Or B) Proterozoic stratigraphy of Or C) Proterozoic stratigraphy of Or D) Archaean stratigraphy of Gu 	rissa Rajasthar Chattisga	1			

105.	Match the main types of marine sediments in List-I with their corresponding examples in List-II.						
	List I	List II					
	a. Hydrogenous	1. Abyssal clays					
	b. Lithogenous	2. Siliceous oozes					
	c. Cosmogenous	3. Oolites					
	d. Biogenous	4. Iron nickel spherules					
	A) a-3, b-1, c-2, d-4	B)	a-1, b-3, c-4, d-2				
	C) a-3,b-1, c-4, d-2	D)	a-3, b-2, c-4, d-1				
106.	Which of the following fossils	Thich of the following fossils is the most characteristic one of the Intertrappean Beds?					
	_	B)			11		
	C) Otoceras woodwardi						
107.	The world's largest known imp	world's largest known impact structure produced due to asteroid impact:					
	A) The Vredefort Crater in F		-	-	1		
	B) The Chicxulub Crater in						
	C) The Sudbury Basin in On						
	D) The Popigai Crater in S	iberia, Russ	ia				
108.	The Prehnite-Pumpellyite facie	The Prehnite-Pumpellyite facies is a metamorphic facies transitional between a					
	facies.						
	A) Eclogite, Blueschist) Zeolite, Greens				
	C) Blueschist, Greenschist	D) Sanidinite, Eclo	gite			
109.	The least dense of all the planet	s in the Sol	ar System:.				
	A) Uranus B) Ju	piter	C) Saturn	D)	Mercury		
110.	'Reversed Magnetic Polarity' p	rovide evid	ence for:				
	A) Origin of Earth	B)	Continental Drift				
	C) Expanding Earth	D)	Sea Floor Spreadin	g			
111.	The most famous and widely	recognized	1 species of "Living	g Fossil"	' in the animal		
	kingdom:	8		5			
	•	The maidenhair tree, Ginkgo biloba The Coelocanth, Latimeria chalumnae					
	B) The Coelocanth, Latimeri						
	C) The cedar wood wasp, Syntexis libocedrii						
	D) The horseshoe crab, Limi	ılus polyphe	emus				
112.	The oldest acknowledged evide	oldest acknowledged evidence for life on earth is the fossilized stromatolites from:					
		Kaapvaal craton, South Africa					
	B) Dharwar craton, India						
	C) Pilbara craton, Western A	ustralia					
	D) Sarmatian craton, Europe						

113.	he method of well logging which is not used to obtain porosity of the subsurface rockrmations:					osurface rock
	A) Neutron logging	B)	Density	logging		
	C) Acoustic logging	D)	Resistiv	vity logging		
114.	The Government of India enacted the Environment (Protection) Act on: A) 23 rd May, 1986 B) 4 th May, 1994					
	 A) 23rd May, 1986 C) 27th January, 1994 	B) D)		, 1994 ary, 1989		
	C) 27 January, 1994	D)	0 Janu	ary, 1909		
115.	Find the odd one out from amou	-	_	-	res:	
	A) Nodules B) D	esiccation	C)	Concretion	D)	Stylolite
116.	Mapping is the method oproduce maps in scale between				ailed ar	nd is used to
	A) Contact	B)				
	C) Exposure	D)	Closed	compass Travers	se	
117.	Match the minerals with their control List I- Minerals a. Leucite b. Forsterite c. Almandine d. Spodumene	orrespondin List II - <u>C</u> 1. Fe ₃ Al ₂ S 2. LiAlSi ₂ 3. KAlSi ₂ 6 4. Mg ₂ SiC	ompositie Si ₃ O ₁₂ O ₆ O ₆			
	A) a-4, b-3, c-1, d-2 C) a-4, b-1, c-3, d-2	B) a- D) a-	·3, b-4, c- ·3, b-4, c-	-2, d-1 -1, d-2		
118.	Sampling is the most acce				emical	exploration,
	which is best suited to bedded,					
	A) Groove B)	Car	C)	Grab	D)	Chip
119.	Which of the following state incorrect? A) The Earth's tectonic plate B) The asthenosphere is a ref. C) The asthenosphere is the plate D) The asthenosphere is called	es move on t latively stro primary sou	op of the	asthenosphere gid layer of the ost magma		the earth is
120.	The depositional feature made river.	of alluvium	formed a	at the slip-off slo	pe of a	n meandering
	A) Polje B)	Kame	C)	Point-bar	D)	Hornito
				_		