COMBINED TECHNICAL SERVICES EXAMINATION (NON-INTERVIEW POSTS) COMPUTER BASED TEST PAPER – II – GEOLOGY (PG DEGREE STANDARD) (CODE: 395)

	(A)	Beach	✓(B) Sea cliff
	(C)	Bar	(D) Beach Ridge
	(E)	Answer not known	
2.		ongated sand ridges t by a lagoon is terme	parallel to the shore separated from the d as
	✓ (A)	Barrier island	(B) Beach Ridge
	(C)	Sand dune	(D) Point bar
	(E)	Answer not known	
3.		accumulation of sand ruction is called as	d to the Lee of and in the shelter of an
	/ (A)	Sand Shadow	(B) Sand sheet
	(C)	Sand levees	(D) The Barchan
	(E)	Answer not known	
4.	Dese is ca		the latitude of 15°–30° of North and South
	\checkmark (A)	Low-latitude desert	(B) Middle-latitude desert
	(C).	Cold desert	(D) Temperate desert
	(E)	Answer not known	· · · -

Pick out the Odd one from the following

1.

5.		Which of the following viewers have been expressed for the causes of Ice age?								
	(i)	Variation and reduces in solar radiations.								
	(ii)	Variation in the com	rth's atmosphere.							
	(iii)	Shifting of poles and	drifting of co	ntinents						
	(A)	(iii) only	(B)	(i) and (iii) only						
	/ (C)	(i), (ii) and (iii)	(D)	(ii) and (iii) only						
	(E)	Answer not known								
6.		cks made up of har ace of the peneplains a		and resistant rocks	on the					
	(A)	Bajada	(B)	Pediment						
	(C)	Cuestas	, (D)	Monadnocks						
	(E)	Answer not known								
7.	Stal	actite and stalagmites	together cons	stitute						
	. (A)	Concretion	(B)	Travertine	,					
	(C)	Sinter	(D)	Drip-stone						
	(E)	Answer not known								
8.	Whi	ch one is not a erosive	action of glac	iers?						
	(A)	Plucking	(B)	Rasping						
	(C)	Avalanches	(D)	Glacial-drift	•					
	(E)	Answer not known	-							

9.		r and tear of transported roogrinding is called by	ck parti	cle by river through rubbing
	(A)	Attrition	(B)	Abrasion
	(C)	Corrosion	(D)	Impact
	(E)	Answer not known		
10.	Loes	ss deposits in the Mississippi	valley	are called
	(A)	Sand dune	(B)	Sand hill
Ų	(C)	Adobe	(D)	Ripple
	(E)	Answer not known		•
11.	_	ks can be fractured by the bu wn as	rrowing	g animals or growing roots is
	(A)	Frost wedging	(B)	Root wedging .
	(C)	Oxidation	(D)	Hydrolysis
	(E)	Answer not known		
12.	The	high intensity seismic zone i	n India	is
	(A)	The Indo gangetic plains	(B)	The Deccan plateau
	(C)	The Peninsular region	(D)	The Himalayan Region
	(Ė)	Answer not known	•	•
13.	The	age of the earth is		
	(A)	3.2 billion years	(B)	5.6 billion years
J	(C)	4.5 billion years	, ,	3.8 billion years
,	(E)	Answer not known	. ,	

14.	Broad based low elevated volcanic cones are termed						
	(A)	Active Volcanoes	(B)	Extinct Volcanoes			
	(C)	Dormant Volcanoes	✓ (D)	Shield Volcanoes			
	(E)	Answer not known					
15.	The	crater is connected to the r	nagma ch	namber by			
	(A)	Parastic cone	(B)	Vent			
	(C)	Dike	(D)	Vulcan			
	(E) .	Answer not known					
16.	The	half life period of C-14 is					
	(A)	6730 years	(B)	5730 years			
	·(C)	5735 years	. (D)	6625 years			
	(E)	Answer not known					
17.	Com	ets are made of					
	(A)	Molten rock	٠	•			
	(B)	Mineral grains					
~	∕ (C)	Gas, ice and other frozen	liquids				
	(D)	Rock and thin atmospher	e of argor	n '			
	(E)	Answer not known					
18.	The	Guttenberg – Weichert dis	continuit	y is found in which depth?			
	(A)	35 km	(B)	6371 km			
	` ,	33 km	• •	2900 km			
	(E)	Answer not known	· •	•			

19.	Approximately how long ago did the Big Bang take place?							
	(A)	10-15 thousand years ag	О					
	(B)	10-15 million years ago						
	(C)	100-150 million years ag	ÇO .					
_	(D)	10-15 billion years ago						
	(E)	Answer not known						
20.	capa			ter layers Sial and Sime are o the varying geothermic				
	(A)	Datton	(B)	Daly				
	(C)	G.B. Airy's	(D)	Heiskanen's				
	(E)	Answer not known						
21.	In a	peridotite, the P-wave vel	locity is	·				
~	(A)	8.1 kps	(B)	4.5 kps				
	(C)	6.1 kps	(D)	6.8 kps				
	(E)	Answer not known	·					
22.	The	geometrical properties of	rock fabri	es is known as				
	(A)	Petro analysis	· (B)	Fabric analysis				
	(C)	Rock fabric analysis	✓ (D)	Petrofabric analysis				
	(E)	Answer not known						

23.	Which of the following statements are true about 'over-step'?							
	(1)	It develops during marine tra	nsgr	ession				
	(2)	Unconformable sequence w progressively on older member		· ·				
	(3)	It develop during marine regr	ressio	on				
	(A)	(1) is correct	(B)	(2) is correct				
V	/ (C)	Both (1) and (2) are correct	(D)	(3) is correct				
	(E)	Answer not known						
24.	surfa	nconformity that is not shar ace was covered by a thick res the underlying rocks.	_	_				
~	(A)	Blended unconformity	(B)	Para conformity				
•	(C)	Buttress unconformity	(D)	Angular conformity				
	(E)	Answer not known						
25.	A foliation marked by the parallel orientation of tabular minerals in a metamorphic rock with coarse grain size is called a							
	(A)	Schistosity	(B)	Gneissosity				
	(C)	Crenulation cleavage	(D)	Slaty cleavage				
•	(E)	Answer not known						
26.	resp	cleavage within a fold which ect to the axial plane, and whi icularly in the hinge region.						
/	(A)	Axial plane cleavage	(B)	Shear cleavage				
	(C)	Slip cleavage	(D)	Bedding cleavage				
	(E)	Answer not known						
395 –	Geolo	ogy (PG-Degree) 8						

27. Identify the below map symbol for joints.

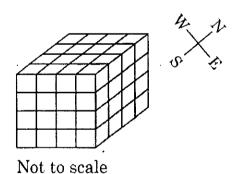


- (A) Strike and dip of inclined
- (B) Strike of vertical joint
- (C) Horizontal joints
- (D) Dip of horizontal joint
- (E) Answer not known
- 28. One set of joint is prominent and parallel to ground surface and another set is less prominent, spacing increase with depth. This type of joints are seen in ——rocks.
 - (A) Sandstone

(B) Marble

✓(C) Granite

- (D) Basalt
- (E) Answer not known
- 29. How many sets of joints are there in the given diagram



(A) 1 set

(B) 2 sets

(C) 4 sets

- \sim (D) 3 sets
- (E) Answer not known

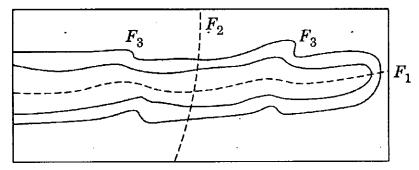
30.	Nag	a thrust is an example of ——	•	—— fault.
	(A)	Reverse fault	(B)	Normal fault
	(C)	Left lateral fault	(D)	Right lateral fault
	(E)	Answer not known		
31.		folds are produced by tange study and vertically at the c	-	procedures which lift up the called ————— fold.
	(A)	Similar fold	(B)	Dome fold
	(C)	Parallel fold	(D)	Supratenuous fold
	(E)	Answer not known	•	
32.	comp		ciple	the strata due to lateral stress axis of a horizontal
	(A)	Flow folding	(B)	Anticlinorium
	(C)	Flexure folding	(D)	Synclinorium
	(E)	Answer not known		
33.	Frag	mentary material produced o	during	faulting is called
	(A)	Gouge	/ (B)	Fault Breccia
	(C)	Mylonite		Sliken sides
	(E)	Answer not known	, ,	
34.	Thic	kening and thinning of beds	at cr	ests and troughs is found in
	((A)	Similar	(B)	Open
	(C)	Concentric		Parallel
	• •	Answer not known	, ,	
395 –	Geolo	ogy (PG-Degree) 10		

- 35. The folds are classified on the basis of,
 - (A) Appearance in cross-section (B)
- (B) Symmetry of fold
 - (C) Thickness of limb
- ✓(D) All of the above
- (E) Answer not known
- 36. Folding is mild and the limbs meet at bends at an obtuse angle are called as ————————— fold.
 - (A) Chevron fold

(B) Fan fold

✓(C) Open fold

- (D) Closed fold
- (E) · Answer not known
- 37. Find out the stages of deformation from the given diagram



- (A) F₁-Youngest, F₂ Intermediate F₃-Oldest
- \checkmark (B) F_1 -Oldest, F_2 Intermediate F_3 -Youngest
 - (C) F_2 and F_3 are Youngest, F_1 -Oldest
 - (D) F2-Oldest, F1-Youngest F3-Intermediate
 - (E) Answer not known
- 38. The process of folding which is considered to be non-tectonic is
 - (A) Tangential tension
- (B) Intrusions
- (C) Tangential compression
- D) Differential compression
- (E) Answer not known

39.	If ec	ual and opposite forces applied	d to a body tend to elongate it, the
		ss so produced is called	· ·
•	/ (A)	Tensile stress	(B) Compressive stress
	(C)	Tangential stress	(D) Working stress
	(E)	Answer not known	
40.	Whi	ch of the statements are true a	bout stereographic projection?
	(i)	The point on a stereogram r called pole to the plane	epresenting normal to a plane is
	· (ii)	The role of the plane lies 45°	from the center of great circle
	(iii)	Ploting of poles are useful in plotted	studying more number of planes
	(A)	(i) only	(B) (i) and (ii) only
•	(C)	•	(D) (ii) and (iii) only
	(E)	Answer not known	
41.	Ster	eographic Rotations are used t	o solve geological problems like
	(A)	Earthquake	
	/ (B)	Structures below unconformi	ty
	(C)	Volcanoes	
	(D)	Tsunamis	,
	(E)	Answer not known	
42.		mple method for determining indrical fold is to construct a —	the orientation of the axis of a diagram.
	(A)	π	(B) α
Ų	/ (C)	β	(D) γ
	(E)	Answer not known	
395 -	- Geol	ogy (PG-Degree) 12	

43.	The process of metasomatic alteration due to the action of superheated steam and fluorine is called as (A) Tourmalinisation (B) Kaolinisation (C) Scapolitisation (D) Greisening (E) Answer not known								
44.	Which of the following statements are true about contact metamorphism?								
	(i) it occurs in country rocks directly adjacent to Igneous Intrusion.								
	(ii) It is a regional thermal event								
	(iii) Intrusive rock produces thermal aureole.								
	(A) (i) only (B) (i) and (iii) only								
	(C) (i) and (ii) only								
	(D) (ii) and (iii) only								
	(E) Answer not known								
45.	The process of the development of bands that are at an angle to the original rock cleavage direction is called as								
	(A) Tectonic banding (B) Kinking								
•	(C) Crenulation (D) Concentration								
	(E) Answer not known								
46.	Which of the following depth zone comprises Eclogite rock?								
	(A) Epizone (B) Katazone								
	(C) Mesozone (D) Anamorphic zone								
	(E) Answer not known								
	13 395 - Geology (PG-Dogree)								

47.	Choose the right matches among the following:								
	(1)	Granulites was termed by	\rightarrow	Bowen					
	(2)	Quartz - Perthite - Garnet ass	emblage	· -	Granulite farcies				
	(3)	Quartz - Perthite - Hypersther	ıe	\rightarrow	Normal assemblage of charnockite				
	(4)	Plagioclase – Hypersthene – Diopside – Garnet		\rightarrow	Asilica rich basic assemblage.				
-	(A)	(1) and (3) are correct			·				
	(B)	(1) and (2) are correct							
	/ (C)	(2) and (3) are correct							
	(D)	(3) and (4) are correct							
	(E)	Answer not known							
	-								
48.	Lov	v grade regional and dislocation	metamo	rph	ism found in				
	(A)	Granulite facies	(B) Am	iphi	bolite facies				
	(C)	Eclosite facies (D) Green schist facies							
•	(E)	Answer not known							
49.		tamorphism that occurs burial vergent plate boundary	and he	atin	g is associated with				
	(A)	Retrograde metamorphism							
	(B)	Contact metamorphism							
	/ (C)	Regional metamorphism		•					
	(D)	Thermal metamorphism							
	(E)	Answer not known							

50.	The	The Harker variation diagram plotted percentage of oxides against							
	(A)	Feldspar percentage							
J	(B)	Silica percentage							
	(C)	Biotite percentage							
	(D)								
	(E)	Answer not known							
51.	Aug	gite rich ultra basic basalt named as							
	(A)	Olivine Basalt (B) Quartz Basalt							
	(C)	Oceanite (D) Ankaramite							
	(E)	Answer not known							
52.	Eut	ectic crystallization noticed in							
	(i)	Albite – Cristobalite series							
	(ii)	Diopside - Anorthite series							
	(iii)	Albite – Anorthite series							
	(A)	(i) only							
	(B)	(ii) only							
	(C)	(i) and (iii) only							
V	(D)	(i) and (ii) only							
	(E)	Answer not known							
53.	Sho	onkinite is a variety of ————— Igneous rock.							
	(A)	Granite (B) Gabbro							
	(C)	Syonite (D) Melasyonite							
	• • •	Answer not known							

- 54. Harzburgite, an ultramagic igneous rocks, is a variety of peridotite consisting mostly of
 - (A) Olivine + Plagioclase
 - ✓(B) Olivine + Low calcium pyroxene
 - (C) Clinopyroxene + Plagioclase
 - (D) Olivine + Micaleous
 - (E) Answer not known
- 55. Dolerites are predominantly madeup of
 - (A) Nepheline in addition to feldspar
 - (B) Pyroxenes are absent
 - ✓(C) Calcic plagioclase and Clinopyroxene Augite
 - (D) Typical absence of feldspar
 - (E) Answer not known
- 56. The following statements are correctly paired in Bushveld complex
 - (i) One of the most remarkable bodies of Igneous rock on Earth
 - (ii) It has great Economic importance
 - (iii) One of the most remarkable bodies of sedimentary rocks
 - (iv) One of the most remarkable bodies of metamorphic rocks
 - ✓(A) (i) and (ii) are correct
 - (B) (i) and (iii) are correct
 - (C) (iii) and (iv) are correct
 - (D) (iv) and (ii) are correct
 - (E) Answer not known

57.	7. An altered form of dolerite that has a dull green color is called			that has a dull green color is called			
	(A)	Vol	canic f	low		(B) Porphyritic	
J	(C)	Dia	base			(D) Dyke and Sills	
	(E)	Ans	swer n	ot kno	wn		
58.	The	form	s of ig	neous	intrus	ions is folded regions are called as	
~	(A)	Pha	acolith	s		(B) Conoliths	
	(C)	Bat	tholiths	S		(D) Volcanic necks	
	(E)	Ans	swer n	ot knov	wn		
59. ·	The	Fels	ic mine	eral is	a tern	n derived for	
	(A)	Fer	romag	nesian	mine	rals like Biotite pyroxene, Amphiboles	
/	✓ (B) Feldspar, Felspathoid and Silica						
	(C) Ferromagnesian and Feldspar and Silica						
•	(D)	Sal	ic and	femic :	miner	als ·	
	(E)	Ans	swer ne	ot knov	wn		
60.	Match the correct answer:						
•	(a)	Gran	nite		1.	Plagioclase dominent	
	(b)	Syen	nite		2.	Alkalifeldspar, Plagioclase dominant	
	(c)		zonite		3.	Alkalifeldspar felspathoid dominant	
	(d)	Dior	ite		4.	Alkalifeldspar dominant	
		(a)	(b)	(c)	(d)		
	(A)	1	2	3	4		
	(B)	3	2	4	1		
~	(C)	1	4	3	2		
	(D)	2	4	3	1		
	(E)	Ans	swer no	ot knov	wn		

(b) (c) (d) (A) (B)	Small Grow Matr (a)	ller siz v at sa	ocryst se to for me rat wholly p	rm	1. 2. 3.	Vitrophyric Intergranular
(c) (d) (A) (B)	Grow Matr (a)	v at sa rix is w	me rat	es		_
(d) (A) (B)	Matr (a)	rix is w			3.	TS 11 111 ()
(A) (B)	(a)		holly a	glassy		Poikilitic
(B)		(b)		•	4.	Porphyritic
(B)	1		(c)	(d)		
		2	3	4		
			2			
(C)	2	4	3	1		
(D)	3	. 4	1	2 .		
(E)	Ans	swer n	ot kno	wn		
(A) (C) (E)	Por	phyrit	ic	wn	,	(B) Poikilitic (D) Intergrowth
sequ	uence	bound				
(A)	Tra	nsgres	ssine s	ystems t	ract	
(B)	Hig	sh stan	d syst	ems trac	t	
(C)	Lov	v stano	d syste	ms tract	, ~	
(D)	Lov	v stanc	d wedg	e systen	ıs tract	
(E)			_			
	Felothei (A) (C) (E) Who sequents (A) (B) (C) (D)	Feldspar their enc (A) Sub (C) Por (E) Ans When the sequence into shall (A) Tra (B) Hig (C) Low (D) Low	Feldspar become their enclosure (A) Subophitic (C) Porphyrit (E) Answer now the seal sequence bound into shalves. (A) Transgres (B) High stand (C) Low stand (D) Low stand (D) Low stand (D)	Feldspar become appreheir enclosure is only (A) Subophitic (C) Porphyritic (E) Answer not know When the sea level risequence boundries minto shalves. (A) Transgressine sinto (B) High stand syste (C) Low stand syste (D) Low stand wedge	Feldspar become approximate their enclosure is only partial (A) Subophitic (C) Porphyritic (E) Answer not known When the sea level rises and sequence boundries may be reinto shalves. (A) Transgressine systems to the sea of the sea of the systems trace (B) High stand systems trace (C) Low stand systems trace (D) Low stand wedge systems	Feldspar become approximately same their enclosure is only partial and the (A) Subophitic (C) Porphyritic (E) Answer not known When the sea level rises and the coasequence boundries may be recognise into shalves. (A) Transgressine systems tract (B) High stand systems tract (C) Low stand systems tract (D) Low stand wedge systems tract

64.		1000 km long and 100 km w nea in West Africa is best exam		_
√	(A)	Aulocogen	(B)	Interior basin
	(C)	Rift basin	(D)	Foreland basin
	(E)	Answer not known		
65.	serie	unconformity recognized in second continuous reflectors aga coned as a		
	(A)	Depositional sequence	(B)	Sequence boundary
	(C)	Correlative conformity	(D)	Genetically linked
	(E)	Answer not known		
66.	and sedi	deposits are the result of eros further intermixing with allu ments and are formed due to m base of the slope is defined as	ıvial	deposits and poorly sorted
	(A)	Channel lag deposits	(B)	Channel fill deposits
	(C)	Colluvial deposits	(D)	Lateral accretion deposits
	(E)	Answer not known		
67.		sea level changes, resulting re oastal line of world wide in the		
	(A)	Eocene glaciation	(B)	Miocene glaciation
	(C)	Recent glaciation	(D)	Pleistocene glaciation
	(E)	Answer not known		

68.	A me	echanically deposited grains	tones	of sand size $(\frac{1}{16}-2 \text{ mm in})$				
	diameter) is called as							
	(A)	Calcirudite	(B)	Calcarinite				
	(C)	Calaite	(D)	Shell limestone				
	(E)	Answer not known						
69.		irregular opening formed ginous sandstone are called	by th	ne action of carbonate and				
	(A)	Oolicast	(B)	Vug				
	(C)	Stylolites	(D)	Septeria .				
	(E)	Answer not known						
70.	The.	chemical composition of dolor	nite is	3				
	(A)	$(CaMg(CO_3)_2)$	(B)	$CaSO_4$				
	(C)	SO_4	(D)	$\mathrm{CaCO_3}$				
	(E)	Answer not known						
71.	strat obser	ification in which two set	dip in on. Th	of bimodal and bipolar cross a exactly opposite directions his type of stratification is the called as				
	(A)	Swash cross stratification						
	(B)	Hummocky cross stratificati	ion					
✓	(C)	Herringbone cross stratifica	tion					
	(D)	Linguoid waveforms cross st	tratifi	cation				
	(E)	Answer not known						

	(A)	Chaibasa	(B)	Kondapalli
	(C)	Nausahi	(D)	Sukinda
	(E)	Answer not known		
73.	-	palaeo current data is graphic lar histogram are called as	cally	represented in the form of
	(A)	Histogram	(B)	Pie diagram
•	(C)	Rose diagram	(D)	Bar diagram
	(E)	Answer not known		
74.	Seive	eig technique are screening of s	tand	lard
<i>,</i> 1.			_	Size
	(A)	Shape Geometric mean		Values of mineral
	(C)	Answer not known	(D)	values of inflierar
	(E)	Answer not known		
75.	What	t is the phi value of very fine sa	ınd?	
v	(A)	0.063 mm	(B)	0.250 mm
	(C)	0.125 mm	(D)	0.500 mm
	(E)	Answer not known		,
7 <i>C</i>	A 000	eding to Dotti John (1975), the	MOIIN	dod alasa limita ranging
76.		rding to Petti John (1975), the		
~	(A)	0.40 - 0.60	• ′	0.60 - 1.00
	` ,	0.25 - 0.40	(D)	0.15 - 0.25
	(E)	Answer not known		

21

In Andhra Pradesh, chromite ores are located in

72.

77.	Find	l the wrong statement fro	m the following:
J	(A)	Greenlitre is almost ent	irely restricted to permain rocks
	(B)	Chamosite is the mos	t common phanerozoic iron silicate
	(C)	Geothilic occurs as a spa	rry cement
	(D)	Pheneozoic deposits hen	natite occurs as replacement of Ooids
	(E)	Answer not known	
78.	solu arra	tion at the site of thei	emical or bio chemical process such as r accumulation showing interlocking at intergranular pore spices. This type
	/ (A)	Non-clastic texture	(B) Clastic texture
	(C)	Organic texture	(D) Surface texture
	(E)	Answer not known	
79.	Give	e one example for least sta	able mineral.
•	(A)	Olivine	(B) Muscovite
	(C)	Hornblende	(D) Quartz
	. (E)	Answer not known	
80.	Cald	dera is a term used to exp	ress
`	(A)	Very large sized craters of time	that have collapsed with the passage
	(B)	Huge depression created	d by glacial erosion in the mountains
	(C)	Extensions of many par	allel mountain ranges
	(D)	Folded mountains	
	(E)	Answer not known	
395 -	- Geol	ogy (PG-Degree)	22

81.	The mechanical stability of the feldspar is lower than the quartz because								
•	(A)	Feldspar are softer and have a stronger cleavage							
	(B)	Quartz are composed of							
	(C)	Quartz grains is not pos	- ·	-	_				
	(D)	Felspars are softer and l							
	(E)	Answer not known	Ū						
82.	Rego	olith composed of							
•	(A)	Si -·Al – Fe only		(B)	$SiO_2 - O_2 - MgCO_3$				
	(C)	$Al - Ag - CaSO_4 \cdot 2H_2O$		(D)	$Fe - AlSiO_3 - O_2$				
	(E)	Answer not known			-				
83.	fract smal	ture or fault zone is often Il impounded bodies know	manife n as	ste	the fractured materials of a ed as distinctive vegetation or				
~	(A)	Sag ponds		•	Evergreen forests				
	` ,	Water bodies		(D)	None of the above				
	(E)	Answer not known							
84.	Which of the following study can be done through remote sensing technique?								
	(i)	Flood plain mapping							
	(ii)	Landuse and Land cover mapping							
	(iii)	Mapping of underground mining							
	(A)	(i), (ii) and (iii)		(B)	(i) and (iii) only				
		(i) and (ii) only		-	(ii) and (iii) only				
	(E)	Answer not known		` /					
			23		395 - Geology (PG-Degree) [Turn over				

85.	Remote sensing is an important source of GIS data providing in the form of					
	(A)	CAD	(B) Digital image			
	(C)	Cartography	(D) Statistics			
	(E)	Answer not known				
86.	The	land use/land covered map i	s mainly based on the			
	(A)	Vector data	(B) Raster data			
J	/ (C)	Satellite digital image	(D) Attribute data			
	(E)	'Answer not known	•			
87.	The dime	——————————————————————————————————————	landslide have a planar, or two			
	(A)	Rotational slide	(B) Topples			
J	/ (C)	Translational slide	(D) Lateral spread			
	(E)	Answer not known				
88.	The	flood may be caused due to				
	(A)	Heavy precipitation				
	(B)	Failure of river embankme	nt			
•	(C)	Breach of Dam	•			
V	(D)	(A), (B) and (C)				
	(E)	Answer not known				

89.	Which of the following factors attribute to the process of mass wasting?								
	(i)	i) Structural characteristic of a region							
	(ii)	Composition of the rock							
	(iii)	Climate and vegetation							
	(A)	(i) and (ii) only	(B)	(i) an	d (iii)	only			
_	(C)	(i), (ii) and (iii)	(D)	(ii) a	nd (ii	i) only			
	(E)	Answer not known							
90.	is extremely slow downward movement of dry surfacial matters.								
	(A)	Lahars	(B)	Cree	p				
	(C)	Solification	(D)	Debr	is flo	w		-	
	(E) ·	Answer not known	•			•			
91.		th of the following classification oad knowledge of the geologica				carried	out	based	
	(A)	Proved reserves	(B)	Indic	ated	reserves	;		
~	(C)	Inferred reserves	(D)	Conf	irmed	d reserve	es		
	(E)	Answer not known							
	•	•				•			
92.	In In	dia, the largest reserve of Baux	xite i	is fou	nd in				
	(A)	Gujarat	(B)	Jhar	khan	d			
V	(C)	Odisha	(D)	Tam	il Nac	du			
	(E)	Answer not known							

93.		traps may be construrate of silting in the reservoir.	cted	upstream in order to check		
,	(A)	Silt	(B)	Clay		
	(C)	Sandstone	(D)	Slate		
	(E)	Answer not known				
94.		portion of a dam that touches is called	s the	ground on the downstream		
	(A)	Heel of the dam	(B)	Spill way		
	(C)	Axos of dam	(D)	Toe of the dam		
	(E)	Answer not known				
		ame of water in cubic meter a l and normal pool level is repre am.		-		
	(A)	Surcharge storage	(B)	Dead storage		
,	/ (C)	Useful storage	(D)	Reservoir yield low		
	(E)	Answer not known				
96.	Met	tur dam constructed by	_ typ	e of dam structure.		
	(A)	Masonry structure				
,	(B)	Gravity type masonry structu	re			
	(C) Masonry cum earth dam					
	(D)	Earth dam				
	(E)	Answer not known				

(A) Copper (B) Gold (C) Zinc (D) Cadmium (E) Answer not known 98. The concept of the rock cycle given by (A) Lebrbuchder (B) Roth's Allegemeine (C) F.W. Clarks (D) James Hutton (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	ę
(E) Answer not known 98. The concept of the rock cycle given by (A) Lebrbuchder (B) Roth's Allegemeine (C) F.W. Clarks (D) James Hutton (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	ę
98. The concept of the rock cycle given by (A) Lebrbuchder (B) Roth's Allegemeine (C) F.W. Clarks (D) James Hutton (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	ę
(A) Lebrbuchder (C) F.W. Clarks (D) James Hutton (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	e
(C) F.W. Clarks (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	ę
 (E) Answer not known 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known 	
 99. Which of the following method used electric current to in subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known 	
subsurface lithological conditions? (A) Gravity method (B) Radiometric method (C) Resistivity method (D) Magnetic method (E) Answer not known	
C) Resistivity method (E) Answer not known 100. A wave entering a relatively high velocity medium whose	nvestigate
(E) Answer not known 100. A wave entering a relatively high velocity medium whose	od
100. A wave entering a relatively high velocity medium whose	
· · · · · · · · · · · · · · · · · · ·	
and refracted angle is the critical angle.	e incident
(A) P-waves (B) S-waves	
(C) L-waves (D) Head waves	
(E) Answer not known	
101. Salt dome occurs at shallow depths is identified using this r	method
(A) Arc shooting (B) Profile shooting	
(C) Refraction method (D) Fan shooting	
(E) Answer not known	

102.	The unit		d, the resistant measured in t	he
	(A)	m/sec	(B) mgal	
		Gamma	✓(D) Ohm.m	
	(E)	Answer not known		
103.	Radi	o carbon dating technique is	used to estimate the age of	
	(A)	Water	(B) Human body	
J	(C)	Rocks	(D) Buildings	
·	(E)	Answer not known		
104.			stratigraphy of the gulf of Allan usion of the Dunian stage wi	
	(A)	Cretaceous	(B) Tertiary	
	(C)	Permian	(D) Triassic	
	(E)	Answer not known		
105.		Guryul ravine of vihi distri-	ct in Kashmir provides one of t	he
	(A)	Cretaceous – Paleogane	(B) Cretaceous - Tertiary	
	. ,	Precambrian – Cambrian		
	(E)	Answer not known		

106.	Find	out the odd one :						
		The lower Cambrian has been subdivided on the basis of the fossil fauna into						
	(A)	Tommotian	(B) Emsian					
	(C)	Atdabanian	(D) Lenian					
	(E)	Answer not known						
107.	The activ	origin of Siwalik system is vity.	closely related to —					
	(A)	· Fluvial	•					
J	(B)	Orogenic						
	(C)) Glacial						
	(D)	Combined action of Fluvial and glaciate						
	(E)	Answer not known	•					
108.		Pinjor and the boulder conglorer part of upper siwalik has bee	nerate formation comprising the n assigned a ———————————————————————————————————					
~	(A)	Pleistocene	(B) Holocene					
	(C)	Pliocene	(D) Miocene					
	(E)	Answer not known						
109.	The	basic unit in Biostratigraphy is	,					
	(A)	Subzone	(B) Chron					
	(C)	Zone	(D) System					
	(E)	Answer not known						

110.	The thickness of the trichinopoly stage is about								
J	(A)	300 m	(B) 500 m						
	(C)	800 m	(D) 900 m						
	(E)	Answer not known							
111.	The Stratigraphic sequence Jurassic of Ladakh is as follows:								
	Starting from older → younger								
·	(A)	Monotis shales \rightarrow kioto limestone \rightarrow spiti shales \rightarrow Giumal sandstone							
	(B)	Giumal sandstone \rightarrow monotis shale \rightarrow spiti shales \rightarrow kioto limestone							
	(C)	Giumal sandstone \rightarrow spiti shales \rightarrow kioto limestone \rightarrow monotis shales							
•	(D)	Monotis shales \rightarrow spiti shales \rightarrow kioto limestone \rightarrow Giumal sandstone							
	(E)	Answer not known							
112.	The silurian sequence in the Spiti region is named as								
	(A)	Lipak formation	(B) Takche formation						
	(C)	Panjal formation	(D) Dogra formation						
	(E)	Answer not known							
113.	The	semri groups of lowe ——m. thick	r vindhyans are comprising about						
J	(A)	1300	(B) 1400						
	(C)	800	(D) 400						
	(E)	Answer not known							

114. The rocks of the Delhi supergroup are exposed in t mountain chain.			exposed in the ———							
	(A)	Himalaya	(B)	Eastern Ghats						
J	(C)	Aravalli	(D)	Assam						
	(E)	Answer not known								
115.	The a	The age of Cheyair group is								
	(A)	Cenozoic	(B)	Mesozoic						
	(C)	Paleozoic	(D)	Proterozoic						
	(E)	Answer not known	•	•						
116.	Find	the oldest stratigraphic group	is th	ne following list						
_	(A)	Rannibennur group	(B)	Chitradurga group						
~	(C)	Bababudan group	(D)	Dharwar super group						
	(E)	Answer not known								
117.	117. The northern peninsula was affected by an orogenic cycle at t close of the Archean Era that give rise to the formation of									
	(A)	Dharwar folding	(B)	Amgaon orogenies						
v	(C)	Bundelkhand Gneiss	(D)	None of the above						
•	(E)	Answer not known								
118,		singhbhum region of Bihar, M ricts of Orissa are well known fo								
_	(A)	Copper	(B)	Lead						
	(C)	Mica schist	(D)	Manganese						
	(E)	Answer not known								
	•									

31

119.	The term "Ordovician" was named after a								
	(A)	Place	(B) Tribe						
	(C)	Rock type	(D) Geologist						
	(E)	Answer not known							
120.	The	The combination of two or more synthems is termed as							
	(A)	Sub synthems	(B) Super synthems						
	(C)	Miosynthem	(D) None of the above						
•	(E)	Answer not known							
121.	The principal of original horizontality states that								
	(A)	Most rocks in the earth's cr	ust are layered horizontally						
	(B)	Igneous rocks from essentia	•						
	(C)	Metamorphic gradients are essentially horizontal before deformation							
~	(D)	Sediments are deposited as	essentially horizontal layers						
	(E)	Answer not known							
122.		triceratops, three-horned d ween	inosaur found near the boundary						
V	(A)	Upper cretaceous and Eocei	ne						
	(B)	Middle to upper cretaceous							
	(C)	Lower cretaceous							
	(D)	Jurassic							
	(E)	Answer not known							

123.	3. The dinosaurs are divided into two main group namely saurisc and			ain group namely saurischia				
	(A)	Pachypodosaria	(B)	Coculorosauria				
	(C)	Sauropoda	(D)	Ornithischia				
	(E)	Answer not known	•					
124.		Indian elephants, the Elephan donta, Mastodont and their						
	(A)	Artiodactyla	(B)	Proboscidea				
	(C)	Equidae	(D)	Hominidae				
	(E)	Answer not known						
125.		life cycle of many foramunifera xual and asexual phases know		sists of an orderly succession				
	(A)	monothalamous	(B)	agamont				
~	(C)	alternation of generation	(D)	Gametogenesis				
	(E)	Answer not known						
126.	The j	popular analyes among the nu	meri	cal taxonomists is				
J	(A)) Population diversity						
	(B)	Composition of faunal assemb	olage					
	(C)	Faunal Association						
•	(D)	Synecology of species						
	(E)	Answer not known						

127.		The sort of ligament which extends both in front of and behind the beaks in certain bivalved mollus KS is called as							
	(A)	Ancestruler	(B)	Anisomyarian					
	(C)	Anapsidan	ND)	Amphidetic					
	(E)	Answer not known							
128.	The	The suture is marginal with Cephalic sheid but eyes are absent							
	(A)	Opisthoparian	(B)	Protoparian					
V	(C)	Hypoparian	(D)	Proparian					
•	(E)	Answer not known		•					
129.	Give one example of primitive trilobites which is having larger number of Thoracic segments, forty five and more.								
	(A)	Paradoxides	(B)	Olenellus					
	(C)	Agnostus	(D)	Cyclophage					
	(E)	Answer not known							
130.	Which of the following is incorrectly paired?								
	(1)	Monograptus – Siluria	.n						
	(2)	Didymograptus – Cambr	ian ,						
	(3)	Tetragraptus – Ordovi	cian						
	(4)	Leptograptus – Ordovi	cian						
	(A)	(1) is incorrect	(B)	(3) is incorrect					
~	(C)	(2) is incorrect	(D)	(4) is incorrect					
	(E)	Answer not known							
		· ·		e e					

131.	In c	n cephalopods, the Goniatite suture line was abundant from								
(A) Devonian to upper carboniferous										
	(B)	Middle carboniferous								
	(C)	Triassic and Jurassic								
(D) Permian										
	(E)	<i>'</i>								
132.	Mat	tch th	e follo	wing:						
	(a)	Red	coral		1.	Corallium				
•	(b)	Orga	ın pipe	coral	2.	Tubipora ·				
	(c)			3.	Heliopora					
	(d)			4.	Hexacorallia					
	,	(a)	(p)	(c)	(d)					
•	(A)	1	2		4					
	(B)	2		3	1					
	(C)	4	3		1					
	(D)	3	4	1	2					
-	(E)	Ans	swer n	ot know	vn					
133.	Gra	ptolit	es wei	e abun	dant '	which of the following geological age?				
	(A)	Cai	mbriar	1	•	(B) Carboniferous				
J	(C)	Ord	lovicia	n to Sil	urian	(D) Devonian				
(E) Answer not known										

134.		ely coiled nautiloids shells in gnated as	whic	ch the coils do not touch are
	(A)	Crytocera cones	(B)	Bactriti cones
	(C)	Gyroceracones	(D)	Gyroceratiti cones
	(E)	Answer not known		
135.		amorphous horny substances,	as i	finger nails, the skeleton of
	grap	tolites e^k is called as	,	
	(A)	Chilaria	(B)	Chitin
	(C)	Conch	(D)	Conchyolin
	(E)	Answer not known		
136.		body is oval in shape. Head sho bella is not reaching the anter t is		
_	(A)	Olenus	(B)	Calymene
	(C)	Paradoxides	(D)	Ollenellus
	(E)	Answer not known		
137.	In tr	ilobites, the single axial suture	is c	alled
	(A)	Median suture	(B)	Facial suture
	(C)	Rostral suture	(D)	Hypostomal suture
	(E)	Answer not known		
		•		

138.	Which of the following statements are true about classification of Trilobites according to 'Beecher'?							
	(i)	Ontogeny as shown by various	s growth stages					
	(ii)	Nature of cephalon (or) pygidium (or) both						
	(iii)	Nature and presence (or) absence of eyes						
	(A)	(i) only	(B) (i) and (ii) only					
	(C)	(i), (ii) and (iii)	(D) (ii) only					
	(E)	Answer not known						
139.	In this type of preservation, the original organic substance is completely replaced by inorganic substance molecule by molecule							
	(A)	Recrystallization						
	(B)) Petrification						
•	(C)	Replacement of mineralization						
	(D)	Distillation						
	(E)	Answer not known						
140.	shell place	or skeletal matter and depo	aters completely dissolve origina osit some other substance in its nd quartz are common replacing					

(B) Distillation

(D) Impregnation

Premineralization

Answer not known

Petrification

(A)

(E)

141.	accui	-	has been rolled and abrade e period before their deposition a	
	(A) (C)	Derived fossils Facies fossil	(B) Mineralized fossil✓D) Remain fossils	
	(E)	Answer not known		
142.		value of $lpha$ is lowest, γ higrefractive indices is called	ghest, $oldsymbol{eta}$ intermediate between t	he
	(A)	Interference colour ·	(B) Birefringence	
	(C)	Optical normal	(D) Isotopic	
	(E)	Answer not known		
143.	the o	•	samples and the detector moves to measure diffraction intensiti	
	(A)	very low angle to more than	100°	
v	(B)	very low angle to more than	150°	
	(C)	very high angle to more tha	n 200°	
	(D)	very low angle to more than	200°	
	(E)	Answer not known		
144.	The s	shape and size of unit cells o	f mineral are determined by	
	(A)	Refraction method	(B) Reflection method	
	(C)	X-ray diffraction	(D) Microscopic method	
	(E)	Answer not known	. · · · · · · · · · · · · · · · · · · ·	

38

395 - Geology (PG-Degree)

145.	two :		_		vertical faces each intersects equal lengths and lies to the
	(A)	Prism of II nd ordered			
	(B)	Basal Pinacoid (001)			
	(C)	Prism of Ist ordered (110))		
	(D)	Dy pyramid Ist ordered (1			
	(E)	Answer not known	,		
146.	Choo	ose the right match among	g type		
	New	ton's scale of interference	colours		
	1.	First order – grey, white	, yellow	aı	nd red
	2.	Second order – violet, blu	ue, gree	n,	yellow, orange and red
	3.	Third order - grey, white	e, indigo)	
	4.	Fourth and above - Pale	yellow	an	d Pale red
	(A)	1 and 3 are correct	(]	B)	1 and 2 are correct
	(C)	2 and 3 are correct	(1	D)	3 and 4 are correct
÷	(E)	Answer not known			
147.	Inte	rference colour of the quar	rtz is		
	(A)	Higher order yellow	(]	B)	First order grey
	(C)	Higher order pink	(]		Isotropic
	(E)	Answer not known			
148.		ch one of the followin exagonal Dipyramidal of H	_		al is NOT crystallized in System?
, .	(A)	Benitoite	. (1	B)	Beryl
	(C)	Pyrrhotite	(]	D)	Molybdenite
	(E)	Answer not known			
			39		395 – Geology (PG-Degree) [Turn over

149.	wite	i the diamond is exposed to th	e sui	i, it exilibits:
J	(A)	Phosphorescence	(B)	Fluorescence
	(C)	Opalescence	(D)	Play of colours
	(E)	Answer not known		
	~ 1			
150.	Choo	se the right matches among ty	ype	
	1.	Contact twin – Gypsum		
	2.	Multiple twin – Orthoclase		
	3.	Penetration twin - Staurolite	•	
	4.	Cyclic twin – Pyroxene		
_	(A)	1 and 3 are correct	(B)	1 and 2 are correct
	(C)	2 and 3 are correct	(D)	3 and 4 are correct
	(E)	Answer not knówn	•	•
151.	Tridy	mite is formed at temperatur	e	
	(A)	< 573°	(B)	> 870°
	(C)	between 573° and 870°	(D)	between 563° and 663°
	(E)	Answer not known		
152.	Bioti	te mineral chemical compositi	on is	•
	(A)	K Mg ₃ (Alsi ₃ O ₁₀), (F,OH)		
	(B)	$K (Mg, Fe)_3 (Al, Fe) Si_3 O_{10} (O$	क्षं म	
	(C)	$KAl_2 (AlSi_3 O_{10}) (OH)_2$,11,1)	2
	, -	2 10 10 12		
	(D)	K(Li, Al) ₃ (Si, Al) ₉ O ₁₀ (OH,F) ₂	2	
	(E)	Answer not known		

40

395 – Geology (PG-Degree)

153.	The	lpha -crystobalite quartz is formed	l in t	the system of
	(A)	Cubic	(B)	Tetragonal
	(C)	Hexagonal	(D)	Monoclinic
	(E)	Answer not known		
154.	Jade	ite is a high-pressure pyroxene	four	nd in metamorphic rock
	(A)	Green Schist facies	(B)	Blue Schist facies
	(C)	Eclosite facies	(D)	Amphibolite facies
	(E)	Answer not known		
155.	Horn	ablende is a mineral commonly	foun	d in the association of
	(A)	Metamorphic rocks	(B)	Sedimentary rocks
V	(C)	Igneous rocks	(D)	Sandstone
	(E)	Answer not known		
156.		erals breaks with an irregular ell is called	surf	ace with concentric lines like
	(A)	Even fracture	(B)	Hackly fracture
	(C)	Uneven fracture	(D)	Conoidal fracture
	(E)	Answer not known		,

157.	Match	the	following	correctly.
------	-------	-----	-----------	------------

Minerals

Streak colour

- (a) Malachite
- 1. Orange
- (b) Magnetite
- 2. Light blue
- (c) Realgar
- 3. Black
- (d) Azurite
- 4. Pale green
- (a) (b)
- (d)
- (A) 1 (B) 4
- 2

(c)

- (D) 4
- 2412
- (C) 4
- 3
 - 2 . 1
- (D) 3
- 1
 - 1 2
- (E) Answer not known

4

3

3

158. Which of the following is correctly paired?

- 1. Orthopyroxene
- Occurs in ultrabasic igneous rocks
- 2. Eustatic
- $FeSiO_3$
- 3. Spodumene
- LiAlSi₂O₆
- 4. Diopside
- Orthorhombic

(A) 1

(B) 2

(C) 3

- (D) 4
- (E) Answer not known

159. The specific gravity of Galena is

(A) 7.8

(B) 7.3

(C) 7.6

- (D) 6.7
- (E) Answer not known

160.	Moh:	r's scale of mineral hardnes	s arran	ged in eighth placed mineral
	(A)	Gypsum		(B) Apatite
	(C)	Corundum	v	(D) Topaz
	(E)	Answer not known		
161.	Halit	te (NaCl) possess————	— bond	ing.
	(A)	Covalent	(B)	Organic structures
V	(C)	Ionic	(D)	Isotopes
	(E)	Answer not known		•
162.	Dian	nonds are recovered from		
	(i) .	Kimberlite		•
	(ii)	Lamproites		
	(iii)	Marble		
	(iv)	Placer		
	(A)	(i) and (ii) only	(B)	(i), (ii) and (iv) only
	(C)	(iii) and (iv) only	(D)	(i) only
	(E)	Answer not known		
	•	•		
163.				lant matter. Which resists
	hum	ification including spores ar		
	(A)	Vitrinite	` '	Liptinite
	(C)	Inertinite	(D)	Cutinite
	(E)	Answer not known		
		•		

164.	The	percentage range of newly d	leposite	d sand porosity is
	(A)	20 - 24%	(B)	40 - 50%
	(C)	30 - 32%	(D)	40 – 42%
	(E)	Answer not known		
165.		hydrocarbon substances the colatile which occur in vein o		black, hard, insoluble and
	(A)	Earthwax	(B)	Pyrobitumens
	(C)	Natural asphalt	(D)	Kerogen
	(E) ·	Answer not known	•	•
166.	The	age of the tertiary coals is c	alled	
	(A)	Lower carboniferous age	(B)	Eocene to miocene age
		Upper carbonifereous age		
	(E)	Answer not known		
167.		ch of the following is not ing of petroleum?	obtaine	ed as a fraction during the
	(A)	Kerosene	$\langle B \rangle$	Natural gas

(C) Lubricating oil

Answer not known

(E)

(D) Bitumen

168.		second largest chrystotile asb oited until 2003 is	estos deposits in the world were
	(A)	Ural mountains in Russia	
	(B)	Thetford in Quebec, Canada	
	(C)	Zimbabwe, South Africa	
	(D)	Mississippi valley of North A	nerica
	(E)	Answer not known	
169.		fractory material CaO Mgo is ning it at about	manufactured from dolomite by
	(A)	1600°C	(B) 1500°C
	(C)	2000°C	(D) 800°C
	(E)	Answer not known	
•	•	•	•
170.	The	chemical composition of malac	hite is
	(A)	$\mathrm{Cu}_2(\mathrm{OH})_2\mathrm{CO}_3$	(B) $Cu_2Cl(OH)_3$
	(C)	CuFeS_2	(D) Cu_3AsS_4
	(E)	Answer not known	
171.	Whie	ch of the following gangue min	eral associated with gold?
✓	(A)	Limonite	(B) Calcite
	(C)	Zircon	(D) Monosite
	(E)	Answer not known	

172.		early called	_	netic	deposit	ts that	result	from	magmatic	processes
	(A)		umote	ctic						
J	(B)		notect							
	` '		geneti							
	` '	•	enetic							
	(E)		wer no		wn					
173.	Whi	ch of	the fol	lowir	ng mine	ral con	tains u	raniu	m?	
	(A)	Mor	nazite	•			(B) T	'hanit	e .	
•	` '		notite		-		(D) T	'hania	nite	
	(E)		wer no	ot kn	own		(- / -			
	` ,									
174.		ch th positi		wing	the co	rect : a	answer	based	d on the m	ineral and
	(a)	Magr	netite		1.	FeCO	3			
	(b)	Hem	atite		2.	$\mathrm{Fe_2O_3}$	$.\mathrm{H}_{2}\mathrm{O}$			
	(c)	Limo	nite		3.	Fe_2O_3	ı			
	(d)	Sider	rite	,	4.	Fe ₃ O ₄	:		•	
		(a)	(b)	(c)	(d)			-		
. •	(A)	4	.3	2	1					
	(B)	1	2	3	4					
	(C)	2	3	4	1.					
	(D)	1	4	3	2					
	(E)	Ans	wer no	t kno	own					

175.		ndia, occurrence of urani	um in e	exploitable quanties have been			
J	(A)	Jadugade uranitemine	(I	(B) Jaisalmer uranitemine			
	(C)	Udaipur uranitemine	(I	(D) Mussoriee uranitemine			
	(E)	Answer not known					
176.		type 2 fluid inclusions on nging to the following prop		d in hydrothermal ore deposits			
•	(A)	Water vapour occupies >60% of the inclusion volume; low to moderate salinity; effervescence of a dissolved gas is below the critical point					
	(B)	CO ₂ rich inclusion, with in the inclusion occur in		vater, at room temperature COs and gas stages			
	(C) ·	Highly saline aqueous i brines from melt at mag		on, high density, segregation of emperature			
	(D)	Liquid aqueous inclusion water vapour bubble and		low to moderate salinity. The ty is 1g/cm³			
	(E)	Answer not known					
177.	surf	- 0	_	tic ore is a consequence of near sed by meteoric water seeping			
	(A)	unsaturated zone	· (I	(B) saturated zone			
	(C)	saprolite zone		(D) limonite zone			
	(E)	Answer not known					
178.	The	melting point of germanic	ım is				
	(A)	449.5°C	(]	(B) 29.78°C			
J	(C)	937.4°C	(]	(D) 320.9°C			
	(E)	Answer not known					
			47	395 – Geology (PG-Degree [Turn ove			

170	Diag	aminated load gine denogit is g	ni++x	r conglomoratic dolomito and			
179.		eminated lead zinc deposit is g tzite of Jawar, Rajasthan is an					
	(A)	Breccia filling deposits	(B)	Solution-Cavity filling			
V	(C)	Pore space filling	(D)	Vesicular filling			
	(E)	Answer not known					
180.	solut large	most deposits have been forme tion whether liquid, igneous of e class as distinct from entration.	r ga	seous. Which constitute one			
V	(A)	Lindgrens classification					
	(B)	Beck and Berg classification					
	(C)	Nigilli classification					
	(D)	Schneiderhohn classification					
	(E)	Answer not known					
181.		of the World's production of	pla	tinum and platinum metals			
	(A)	Hydrothermal deposits	(B)	Residual deposits			
J	(C)	Placer deposits	(D)	Sublimation deposits			
	(E)	Answer not known					
182.	Find out the following type of granitoids which are the product or repeated melt – extraction from the same source rocks. The possible source of magma is lithospheric mantle						
J	(A)	A-type granitoids	(B)	S-type granitoids			
	(C)	I-type granitoids	(D)	M-type granitoids			
	(E)	Answer not known					

100.		electrical resistivity survey, thation is	ie r	esistivity values for the clay					
V	(A)	low values below 5 ohm.m							
	(B)	high values above 100 ohm.m – 200 ohm.m							
	(C)	201 – 300 ohm.m							
	(D)	> 300 ohm.m							
	(E)	Answer not known							
184.	Find	the odd one out							
	(i) ·	Map large, burried valleys, le limestone areas	ocat	e sink holes and caverns in					
	(ii)	Correlating lithology and drawing geophysical sections							
	(iii)	Fresh-salt water interface by constant separation profiling							
	(iv)	Bed rock profile for sub surface studies							
_	(A)	only (i)	(B)	only (ii), (iii)					
	(C)	only (iv)	(D)	only (iii), (iv)					
	(E)	Answer not known							
185.		landward sloping fresh water the depth governed by the	sal	twater interface are formed					
•	(A)	Hale-shaw model	(B)	Darcy's law					
·	(C)	Ghyben-Herberg relations	(D)	Thies method					
	(E)	Answer not known							

186.	_	A groundwater well discharging from the freshwater zone causes the saltwater to move upwards towards the well.									
	(A)	Discharge	(B)	Leveling							
~	(C)	Upconing	(D)	Hydraulic conductivity							
	(E)	Answer not known									
187.	187. Which of the following isotopes has the shortest half life										
	(A)	Fluorine-18	(B) Carbon-11								
	(C)	Tritium	(D)	Carbon-14							
-	(E)	Answer not known		•							
188.	Whic	Which one is not suitable for the rainwater harvesting method?									
	(A)	groundwater level is raised									
	(B)	reduce the crack formation in house									
	(C)	saltwater intrusion into the land is arrested									
~	(D)	increase the specific retention value									
٠	(E)	Answer not known									
189.	Methods used to estimate floods discharge based on high water marks left over in the past —										
	(A)	ultrasonic method	(B)	area velocity method							
~	(C)	slope area method	(D)	moving boat method							
	(E)	Answer not known									

190.	The calle		is ı	ısed	to	measure	pote	ntial	evapotranspirations is		
	(A)	Odomet	tre				(B)	Lys	imeter		
	(C)	` * * * * * * * * * * * * * * * * * * *									
	(E)	Answer	Answer not known								
191.	Which type of rotary drill bits is suitable for unconsolidated clay and sand formation?										
	(i)	Three w	vays	8							
	(ii)	Fish tai	Fish tail								
	(iii)	Rock ro	Rock roller								
		only (i)					(B)	onl	y (i) and (ii)		
		only (ii)	I				•	_	y (iii)		
•	(E)	Answer not known									
192.	If an airline of length 50 m is submerged in water upto 30 m then the submergence is										
U	(A)	60%					(B)	less	s than 60%		
•	(C)	80%					(D)	20%	ó		
	(E)	Answer	not	t kno	wn						
193.	usua	The depth of the well and the number of aquifers has to penetrate is usually determined from the lithological log of the area and confirmed from electrical resistivity and (A) Induction logging (B) Drilling time log									
	(C)	Temper	ratu	re lo	g		(D)	Sor	nic log		
	(E)	Answer	no	t kno	wn		,		,		

	(A)	15 − 30%	(\mathbf{Q})	20 - 40%						
	(C)	30 - 45%	(D)	15 - 35%						
	(E)	Answer not known								
195.	The unit of Transmissivity is given by									
	(A)	m/day ~	(B) m ² /day							
	(C)	m³/day	(D)	dimensionless						
	(E)	Answer not known								
196.	Choose the correct statement from the below option:									
	(i)	Volcanic rock can form highly permeable equifers								
	(ii)	In sandstone, the porosity and yield have been increased by cement								
	(iii)	Igneous and metamorphic rocks are impermeable in nature								
	(iv)	Rhyolites are less permeable than basalt								
·	(A)	only (i)	(B)	only (i) and (ii)						
J	(C)	only (i), (iii), (iv)	(D)	(i), (ii), (iii), (iv)						
	(E)	Answer not known								
197.	The reason behind saturation by rain and capillary rise destroy the film causing loss of stability									
	(A)	Gravitational moisture	(B)	Capillary moisture						
V	(C)	Hygroscopic moisture	(D)	None of the above						

(E) Answer not known

194. The porosity range of gravels

190.	rainfall over an area									
	(A)	Isogonal method	(B) Symon's method							
	(C)	Isohyetal methods	(D)	Arith	ımeti	c Mean	methe	od		
	(E)	Answer not known								
199.	A completely saturated aquifer that is bounded above by a semi- pervious layer and below by a layer that is either impervious or semi-pervious									
•	(A)	Leaky Aquifer	(B)	Confi	ined .	Aquifer				
	(C)	Free ground water Aquifer	(D)	Press	sure A	Aquifer				
	(E)	Answer not known								
200.	exists within and in equilibrium with water rich volatile fluids that are derived from a magma.									
_	(A)	Juvenile water	(B)	Conn	ate v	vater				
	(C)	Metamorphic water	(D)	Fossi	l wat	er				
	(E)	Answer not known								