## RGUCET 2022

## MSc in Applied Geology

1	A contonco with or	a main dauca and	l ana subardinata di			ontonco (Fillin		
1		ie main clause and	l one subordinate cla	ause is called	S	entence. (Fill In		
	the blank)	1	1	1		ſ		
	a) simple	b) complex	c) compound	d) twisted	С	compound		
2	I could not sleep la	st night(Con	nplete the sentence	by choosing the o	correc	t option)		
	a) because being	b) despite being	c) in spite of being	d) since being	b	despite being		
	very tired.	very tired.	sleepless.	very tired.		very tired.		
3			home last					
_	in the blank)	, _		0 (* * * * * * *				
		h) has to walked	c) had to walk	d) had to	с	had to walk		
		by hus to wanted		walked	C			
4	Llo factivita	 n the accident har	hanned (Chance the		arh ta	fill in the blank)		
4		n the accident hap	ppened.(Choose the o		erbio	jili in the blank)		
	a) drives	b) drove	c) is driving	d) was driving	d	was driving		
	a) unves	b) drove			u	was unving		
	l for holf o			Chasse the ser		una of work to		
5	I for half an hour when it suddenly started to rain.( <i>Choose the correct form of verb to</i>							
	fill in the blank)	1						
	a) have walked	-	c) had been	d) was walking	С	had been		
		walking	walking			walking		
6	The African elepha	nt is now confined	I Central Afri	ica.(Choose the c	orrect	preposition to		
	fill in the blank)							
	a) at	b) by	c) to	d) in	С	to		
7	I do my work carefully to make mistakes.(Select the most appropriate word for							
-	the blank space)							
	a) so	b) very	c) too	d) more	с	too		
	a) 50	b) very		u) more	C	100		
		looking ofter the	of choose	Coloct the mean		nuinto would fau		
8	The shepherd was looking after the of sheep.(Select the most appropriate word for							
	the blank space)							
	a) flock	b) herd	c) fleet	d) gang	а	flock		
9	Such conduct dese	rves <u>reprimand</u> .(C	hoose the correct me	eaning of the und	derline	ed word)		
	a) praise	b) punishment	c) rebuke	d) reward	b	punishment		
	, ,	<i>,</i> ,	,	,				
10	He is so garrulous t	hat all soher nerse	ons avoid his compa	ny (Choose the c	orrect	meaning of the		
10	underlined word)	inat an sober perso	ene avoia nis compa			incaring of the		
	a) domineering	h) foolish		d) talkativa	Ч	talkative		
	a) uommeening	b) foolish	c) quarrelsome	d) talkative	d	laikalive		
1	1	1	1	1	1			

11	In which district of Arunachal Pradesh, the remains of ancient settlement of humans were discovered recently?								
	a) Papum Pare	b) Upper Siang	c) Lower Dibang Valley	d) Lohit	а	Papum Pare			
12	18th SAARC Sum					1			
	a) Bhutan	b) India	c) Nepal	d) Sri Lanka	С	Nepal			
13	India's place in t	he Asia Power Inc	lex 2021 is						
	a) 2	b) 3	c) 4	d) 5	С	4			
14	As of May 2022,	India's cumulativ	e COVID-19 vaccina	tion coverage is are	ound				
	a) 170 Cr	b) 180 Cr	c) 190 Cr	d) 200 Cr	С	190 Cr			
15	The International Man Booker Prize for the year 2022 is won by the book titled								
	a) Tomb of Sand	b) Heaven	c) Elena Knows	d) Cursed Bunny	а	Tomb of San			
16	Height of the world's tallest building "Burj Khalifa" is								
	a) 808 m	b) 818 m	c) 828 m	d) 838 m	С	828 m			
17	The English word "mango" is believed to be derived from								
	a) Portuguese	b) Malay	c) Sanskrit	d) Tamil	d	Tamil			
18	Total number of Lok Sabha constituency in India is								
	a) 513	b) 523	c) 533	d) 543	d	543			
19	The total numbe	er of gold medals	won at the Olympic	Games by India so	far is				
	a) 8	b) 10	c) 16	d) 24	b	10			
20	Solid white road	line in the middle	e of roads indicate	·					
	a) crossing the lane is prohibited	b) crossing the lane allowed	c) road bump ahead	d) speed limit 20 km per hour	а	crossing the lane is prohibited			

21	Find the odd one out.						
	a) Titan	b) Europa	c) Phobos	d) Sputnik	d	Sputnik	
22	Among a group of 200 students, 120 students like 'Physics' while 115 like 'Mathematics'. 65 of them like both 'Physics' and 'Mathematics'. How many students like neither 'Physics' nor 'Mathematics'?						
	a) 30	b) 35	c) 50	d) 55	а	30	

23	On the day of inauguration of his shop, a shopkeeper offers 50% discount. On second day, he offered further 20% discount. On third day, he offered further 20% discount. What will be the selling price of an item costing 1000 rupees on third day?						
	a) 910 rupees	b) 480 rupees	c) 320 rupees	d) 100 rupees	с	320 rupees	
24	If 'A' and 'B' together can complete a work in 15 days and 'B' alone can complete the work in 20 days, in how many days can 'A' complete the work?						
	a) 10 days	b) 30 days	c) 45 days	d) 60 days	d	60 days	
25	A train running at a speed of 60 km/hr crosses a 250 m long platform in 30 seconds. What is the length of the train?						
	a) 200 m	b) 220 m	c) 230 m	d) 250 m	d	250 m	

26	Which of the following is a primary structure?							
	a) Fault	b) Fold	c) Thrust	d) Stratification	d	Stratification		
27	27 If progressively older rocks are encountered on moving along dip direction, then following is true?							
	a) dip > slope	b) dip < slope	c) dip = slope	d) slope = 0	b	dip < slope		
28	In which fold both the limbs are overturned?							
	a) Overturned fold	b) Recumbent fold	c) Fan fold	d) Isoclinal fold	С	Fan fold		
29	A folded layer where orthogonal thickness is constant, belongs to:							
	a) Class 1A	b) Class 1B	c) Class 1C	d) Class 2	b	Class 1B		
30	When strike of a fault plane is perpendicular to the dip of the strata, it is known as:							
	a) Dip fault	b) Strike fault	c) Dip-slip fault	d) Strike-slip fault	b	Strike fault		
31	In a stress vs. strain diagram of a rock, if the distance between yield point and rupture point is zero, then the rock:							

	a) undergoes plastic deformation.	b) undergoes ductile deformation.	c) undergoes brittle deformation.	d) does not undergo any deformation.	С	undergoes brittle deformation.	
32	Horst and graben	are associated wit	th which of the fol	lowing?			
	a) Normal fault	b) Reverse fault	c) Strike-slip fault	d) Thrust	а	Normal fault	
33	A rock with dominantly linear fabric is:						
	a) schist.	b) slate.	c) S-tectonite.	d) L-tectonite.	d	L-tectonite	

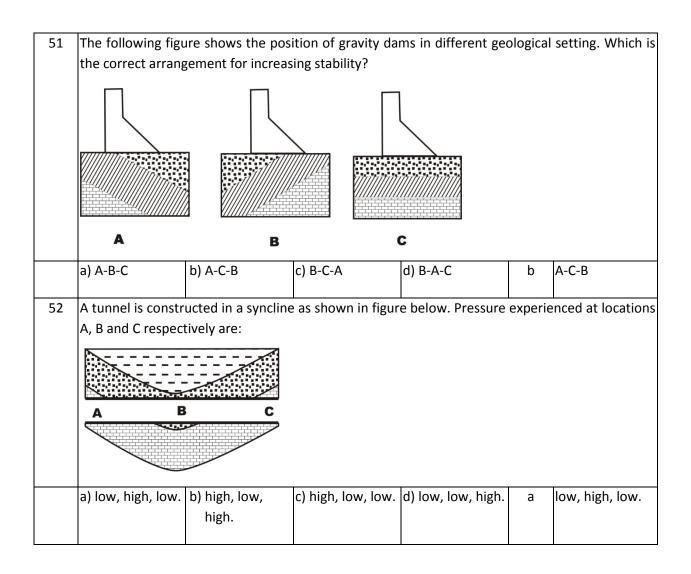
34	Which of the following sensors belongs to Indian Remote Sensing Satellite?							
	a) SPOT	b) ETM+	c) LISS-4	d) IKONOS	С	LISS-4		
35	Which of the following satellite has the capability of taking stereo image?							
	a) Cartosat-1	b) Resoursat-2	c) Landsat-9	d) Oceansat-2	а	Cartosat-1		
36	Union, intersect, clip, erase etc. belong to which vector data analysis process?							
	a) Network analysis	b) Overlay analysis	c) Reclassification	d) Buffering	b	Overlay analysis		
37	In which of the following projection system, all the graticule lines remain straight?							
	a) Azimuthal projection	b) Conical projection	c) Cylindrical projection	d) Polar projection	С	Cylindrical projection		

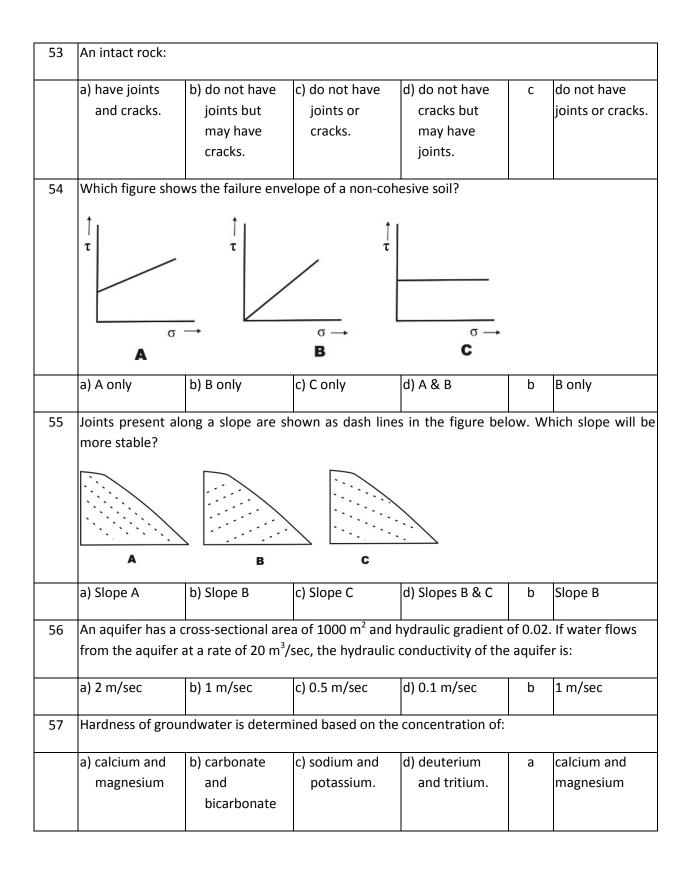
38	Texture of shale is:							
	a) crystalline.	b) interlocking.	c) aphanitic.	d) gritty.	С	aphanitic.		
39	During which geological period did reptile first appear?							
	a) Carboniferous	b) Triassic	c) Jurassic	d) Miocene	а	Carboniferous		

40	Jaintia Group is equivalent to:						
	a) Barail Group	b) Siwalik Group	c) Kulling Group	d) Disang Group	d	Disang Group	
41	Rocks of Cuddapah Supergroup belongs to:						
	a) Archaean	b) Proterozoic	c) Paleozoic	d) Phanerozoic	b	Proterozoic	
42	Which of the following is an example of clastic sedimentary rock?						
	a) Breccia	b) Limestone	c) Evaporite	d) Chert	а	Breccia	

43	Which of the following Age belongs to Holocene Epoch?								
	a) Gelasian	b) Calabrian	c) Chibanian	d) Meghalayan	d	Meghalayan			
44	What is the half	f-life of <sup>14</sup> C?							
	a) 5730 years	b) 3570 years	c) 11460 years	d) 7140 years	а	5730 years			
45	Base of the Qua	aternary Period is f	ixed by IUGS at:			_			
	a) 1.80 Ma	b) 2.58 Ma	c) 23.03 Ma	d) 66.0 Ma	b	2.58 Ma			
46	The lowest level up to which a river can erode its bed is called its:								
	a) base level.	b) sea level.	c) reduced level.	d) ultimate level.	а	base level.			
47	Karst topography is found in which type of terrain?								
	a) Granitic	b) Gneissic	c) Limestone	d) Sandstone	С	Limestone			
	terrain	terrain	terrain	terrain		terrain			
48	Sorting of sediments can be best represented by which of the following statistical measure?								
	a) Standard deviation	b) Skewness	c) Kurtosis	d) Correlation	а	Standard deviation			
49	According to Ko	ppen climate class	ification. 'Aw' is:	<u> </u>					

	a) hot desert	b) cold desert	c) tropical	d) tropical	d	tropical savanna
	climate.	climate.	monsoon	savanna		climate.
			climate.	climate.		
50	El Nino is:					
		1	1	1		
	a) warming of	b) cooling of	c) warming of	d) cooling of	а	warming of
	surface waters	surface	Atlantic	Indian Ocean.		surface waters
	in the eastern	waters in the	Ocean.			in the eastern
	tropical Pacific	eastern				tropical Pacific
	Ocean.	tropical				Ocean.
		Pacific Ocean.				





58	What colour does the outcrop of manganese deposits exhibit?							
	a) Black	b) Brown	c) Maroon	d) Green	а	Black		
59	Diamond bits can be used to drill boreholes in							
	a) horizontal direction.	b) vertical direction.	c) horizontal and vertical directions.	d) all directions.	d	all directions.		
60	In room-and-pilla	r mining, the roof	of the mine is sup	ported by:				
	a) steel structure.	b) wooden logs and bamboo.	c) the mineral itself.	d) concrete column.	С	the mineral itself.		
61	Self-potential method is most suitable for prospecting:							
	a) carbonates.	b) oxides.	c) sulphides.	d) sulphates.	С	sulphides.		
62	Characteristics of petroleum reservoir rock are:							
	a) porous but not permeable.	b) porous and permeable.	c) neither porous nor permeable.	d) permeable but not porous.	b	porous and permeable.		
63	The microscopic organic constituents of coal are called:							
	a) volatiles.	b) lithotypes.	c) macerals.	d) matrix.	C	macerals.		
64	Digboi Oil Field is associated with:							
	a) Naga Thrust.	b) Disang Thrust.	c) Kaladan Fault	d) Mishmi Thrust.	а	Naga Thrust.		
65	Namchik-Namph	uk Coal Field is in v	which state?	1 1		1		
	a) Assam	b) Arunachal Pradesh	c) Himachal Pradesh	d) Meghalaya	b	Arunachal Pradesh		

66	Selenography d	leals with				
		I				
	a) study of	b) study of	c) study of	d) study of	С	study of
	origin of	distribution	origin of	origin of		origin of
	planets	of rocks in	physical	moon		physical
		earth	features on			features on
			the moon			the moon
67	The mean dista	nce between the	e Sun and the Ea	rth is		
	a) 1.49×10 <sup>6</sup>	b) 14.9×10 <sup>6</sup>	c) 149×10 <sup>6</sup>	d) 149×10 <sup>7</sup>	С	149×10 <sup>6</sup> km
	km	km	km	km		
68	Trenches are lo	cated in	•	·		
	a) convergent	b) divergent	c) transform	d) within	а	convergent
	plate	plate	boundaries	plate settings		plate
	boundaries	boundaries				boundaries
69	In case of rotat	ional slide, a kind	d of mass wastin	g, the surface of	rupture is	
				-	-	
	a) horizontal	b) concave	c) convex	d) vertical	b	concave
		upward	upward			upward
70	Which of the fo	llowing animal f	ossil was found i	n South America	and Africa by Alf	red Wegener?
		0				U
	a)	b)	c)	d)	С	Mesosaurus
	Glossopteris	Lystrosaurus	Mesosaurus	Hadrosaurus		
71	Of the total ava	ilable fresh wate	er, how much is s	tored as ground	water?	•
			-	-		
	a) 0.5%	b) 1.3%	c) 30.1%	d) 68.1%	С	30.10%

72	Which one of the following is a closed form?							
	a) pyramid	b) dome	c) dihedron	c) dipyramid	d	dipyramid		
73	Which of the following is an equal angle stereonet type?							
	a) Wulff net	b) Schimdt	c) horizontal	d) vertical	а	Wulff net		
		net	datum	datum				
74	Radius ratio of NaCl structure varies from							
	a) 0.155 to	b) 0.255 to	c) 0.41 to	d) 0.73 to 1.0	С	0.41 to 0.73		
	0.255	0.41	0.73					
75	At depths around 300 to 400 km within the Earth, structure of olivine changes to							
	a) garnet	b) β-spinel	c) pyroxene	d) stishovite	b	β-spinel		

76	Which of the following minerals commonly occur in acicular habit?								
	a) asbestos b) wavelite c) millerite d) pyrolusite c millerite								
77	How many silicate minerals are found in the Moh's scale of hardness?								
	a) 2	b) 3	c) 4	d) 5	С	4			
78	Iceland spar is a transparent variety of								
	a) quartz	b) gypsum	c) muscovite	d) calcite	d	calcite			

79		that has plagioc	ase and pyroxen	e as essential mi	neral where the	composition of		
	plagioclase is a	-	•	<u>.</u>				
	a) diorite	b) gabbro	c) tonalite	d) monzo- syenite	b	gabbro		
80	Name the rock	that has pyroxer	ne as major mine	ral and olivine as	s subordinate mi	neral.		
	a) lherzolite	b) wehrlite	c) harzburgite	d) websterite	d	websterite		
81	In which type o	of eruption, the p	yroclastic deposi	its are spread up	to a million sq. I	km?		
	a)	b) Plinian	c) submarine	d) cinder	b	Plinian		
	strombolian		eruption	cone eruption				
82	What is the de	gree of freedom	at eutectic point	?	·			
	a) 0	b) 1	c) 2	d) 3	а	0		
83	In case of ophitic texture, which mineral is found as oikocryst?							
	a) pyroxene	b) plagioclase	c) amphibole	d) biotite	а	pyroxene		
84	A lopolith has							
	a) flat base	b) concave base	c) convex base	d) convex top	b	concave base		
85	Metamorphism	n of limestone yie	elds		·			
	a) marble	b) schist	c) phyllite	d) gneiss	а	marble		
86	What texture i	What texture is seen in the metamorphosed limestone?						
	a)	b) foliated	c)	d)	а	granoblastic		
	granoblastic		interlocking	porphyroblas tic				
87	Most komatiite	e is restricted to						
	a) Mesozoic	b) Palaeozoic	c) Proterozoic	d) Archean	а	Archaean		

88	The study of trace fossils is known as								
	a) synecology	b) autecology	c) ichnology	d) ornithology	С	ichnology			
89	Which one of the following is a living fossil?								
	a) lamprey	b) orthoceras	c) holectypus	d) apirifer	а	lamprey			
90	The form of gas	tropod shell cha	racterized with s	hort spire and ve	ry large aperture	is known as			
	a) cylindrical	b) fusiform	c) auriform	d) trochiform	С	auriform			
91	Paradoxides were restricted to the geological period								
	a) Middle	b) Upper	c) Ordovician	d) Ordovician	а	Middle			
	Cambrian	Cambrian		to Devonian		Cambrian			
92	Outer shell of n	nost of the foram	ninifers are comp	osed of					
	a) siliceous	b) phosphatic	c) calcareous	d) organic	С	Calcareous			
	material	material	material	wall		material			
93	Earliest known genus of horse fossil is								
	a) Epihippus	b) Orohippus	c) Eohippus	d) Miohippus	С	Eohippus			
94	The size of this	horse was about	· ·	·	·	·			
	a) 10 cm	b) 30 cm	c) 60 cm	d) 90 cm	b	30 cm			

95	Gondwana basins in India host							
	a) coal deposits	b) gold deposits	c) REE deposits	d) base metal deposits	а	coal deposits		
96	Which one of th	hal	Himalaya?					
	a) Geku	b) Subansiri	c) Kimin	d) Dafla Formation	d	Dafla		
	Formation	Formation	Formation			Formation		
97	Se La Group is s							
	a) Main	b) Main Boundary	c) Main Central	d) Central Indian	с	Main Central		
	Frontal Thrust	Thrust	Thrust	Shear Zone		Thrust		

98	Base metals include						
	a) Cu, Pb, Zn and Sn	b) Cu, Pb, Zn and Al	c) Fe, Mg, Mn and Cr	d) Sn, Ar, Cr and Be	а	Cu, Pb, Zn and Sn	

99	Major manganese ore deposit in India is found in								
	a) Odisha	b) Andhra Pradesh	c) Gujarat	d) Arunachal Pradesh	а	Odisha			
100	Leading producer of vanadium in the world is								
	a) Australia	b) USA	c) China	d) India	С	China			