MIZORAM PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF

GEOLOGIST JUNIOR UNDER COMMERCE & INDUSTRIES DEPARTMENT, GOVERNMENT OF MIZORAM, JANUARY, 2020

GEOLOGY PAPER - II

All questions carry equal marks of 2 each.

Attempt all questions.

Full Marks: 200

1. A simple instrument used for the measure	urement of interfacial angles is known as
(a) protractor	(b) goniometer
(c) inclinometer	(d) sextant
2. The highest number of axes of symmetr	ry is
(a) 6	(b) 9
(c) 11	(d) 13
3. A 6 fold rotoinversion axis involves ro	otating the object by
(a) 60 degree	(b) 90 degree
(c) 120 degree	(d) 180 degree
4. The Monoclinic System has only mirro	or plane(s) or a single
(a) 1-fold axis	(b) 2-fold axis
(c) 3-fold axis	(d) 4-fold axis
5. are defined as the relative	lengths of the crystallographic axes
(a) Miller Indices	(b) Axial ratios
(c) Parameter	(d) Crystal form
6. The mineral of tetragonal crystal, the f	face labeled (0hl) would have the Miller Index is
(a) (001)	(b) (011)
(c) (012)	(d) (013)
7. Metals thus tend to form positively cha	arged ions called
(a) cations	(b) anions
(c) metallion	(d) valence

9. Internal arrangement of atoms in a crystal structure made up of 3-dimensional arrays are called

8. The amount of energy required to remove an electron is called the

(a) crystal symmetry

(a) electronegativity

(c) ionization potential

(b) translational symmetry

(c) lattices

Time Allowed: 2 hours

(d) space lattices

(b) van der walls

(d) ionic bonds

10. A face is more commonly developed in a crystal if it intersects a larger number of lattice points is known as

(a) Law of Constancy

(b) Bravais Law

(c) Bragg's Laww

(d) Miller's Law

11.	Augi	te is optically positive with a 2V of about		
	(a)	30 degree	(b)	60 degree
	(c)	90 degree	(d)	120 degree
12.		um aluminum pyroxene that is characterized atively high pressure is	l by i	ts presence in metamorphic rocks formed
	(a)	Nepheline syenites	(b)	Grunerite
	(c)	Augite	(d)	Jadeite
13.	Exso	lution of sodic plagioclase in a K-feldspar of	durin	g the cooling process is termed
	(a)	perthite	(b)	antiperthite
	` ′	trachytic		hyalophytic
14.		ntered uniaxial interference figure consists a black cross called	of d	ark bands that cross the field of view to
	(a)	isogyres	(b)	isochrome
	(c)	melatope	(d)	interference
15.	A sol	id compound that meets the other criteria, b	ut ha	s not definite crystal structure is a said to
	` '	volcanic	(b)	pegmatite
	` '	semi crystal		amorphous
16.	The chave	charge on the ion becomes more negative, a	there	e will be more electrons and the ion will
	` ′	smaller radius		larger radius
	(c)	smaller ion	(d)	larger ion
17.		anion will be more strongly bound to the cer ner structural groups is said	ntral (coordinating cation than it can be bonded
	(a)	anisodesmic	(b)	mesodesmic
	(c)	isodesmic	(d)	parsimony
18.	Rock	s composed almost entirely of talc have a g	reasy	y feel and are referred to as
	(a)	sliperytone	(b)	powderstone
	(c)	soapstone	(d)	greasystone
19.		the help of Pb-Pb isochron, best estimate of		
	` '	6 billion years	` /	4.55 billion years
	` ′	3.96 billion years	` /	2.5 billion years
20.	Rare	Earth Elements (REE) that do fit easily into t	the cr	ystal structure of minerals in the mantle is
	(a)	compatible elements	(b)	incompatible elements
	(c)	crystalline elements	(d)	semi crystal
21.	Weig	tht percentage of Silica content in Rhyolitic	Magı	na is
	(a)	45 - 55	(b)	55 - 65
	(c)	65 - 75	(d)	75 - 85
22.	-	perature of Basaltic Magma is		
		450 - 650 °C	` /	650 - 800 °C
	(c)	800 - 1000 °C	(d)	1000 - 1200 °C

23.		are relatively small plutons that usua	ally s	how a concave downward upper surface.	
	(a)	Lopoliths	(b)	Batholiths	
	(c)	Stocks	(d)	Laccoliths	
24.	Volc	anic eruption that consist mostly of gas bul	bbles	result in a low density highly vesicular	
	rock fragment called				
	` ′	pumice	(b)	vesicles	
	(c)	lapilli	(d)	bombs	
25.		e size of the grains are so small that crystals	canı	not be distinguished with a handlens, the	
	U	ous rock texture is said	(1.)		
	. ,	porphyritic	` ′	phanerictic	
26	` '	aphanitic	` /	holohyaline	
26.		t of the igneous grains are subhedral - that al faces, the fabric is said to be hypidiomor			
	•	idomorphic granular	-	hypidiomorphic granular	
		allotriomorphic granular	` ′	Glomeroporphyritic	
27	()	oscopic examination of igneous rocks show	` /	1 1 4	
<i>4</i> / •		osed in large, optically continuous grains of			
		Poikilitic texture		Ophitic texture	
	` /	Myrmekitic texture	` /	Intergranular texture	
28.	` '	calculate a CIPW Norm the normative min	` ′	· ·	
	is				
	(a)	nepheline	(b)	kyanite	
	(c)	andalusite	(d)	sillimanite	
29.	Mine	erals melting wherein a phase melts to a liq	uid v	with the same composition as the solid is	
	calle				
	` ′	Intermediate compound	` /	Exsolution	
	` ′	Incongruent melting		Congruent melting	
30.		nary eutetic diagram a line separating the fie	eld of	fall solid from that of liquid plus crystals	
	is ca		(1.)	C -1' 1	
		Liquidus	` ′	Solidus	
21	` /	Water interfaces	(a)	Soil interface	
31.		average density of the Earth is about 2200 kg/m3	(h)	2200 kg/m²	
	()	4200 kg/m3		3200 kg/m3 5200 kg/m3	
32		tle is made up of a rock called	(u)	3200 kg/iii3	
32.		xenolith	(h)	peridotite	
	()	rhyolite	` ′	amphibole	
33		of the heat within the Earth is generated by	(u)	шпршооге	
55.		radioactive decay	(h)	mantle convection	
		magma melting	` /	frictional heat	
34		n the continental crustal rocks partial meltin	` /		
· · ·		crustal anatexis	_	crustal migmatite	
	` /	crustal xenolith	` ′	hot spot	
35.	` '	process that causes magma composition to c	` '	•	
,	-	malignite	_	magmatism	
	` ′	magmatic differentiation	` ′	magmatic evolution	
	` /	-	. /	-	

36.	The peridotite family contains Diamond is called			
	-	Dunite		Kimberlite
	(c)	Wehrlite	(d)	Harzburgite
37.	Most	t of the Rare Earth Elements (REE) ionic rac	lius i	S
		small		medium
	(c)	large	(d)	infinite
38.	Thol	eiitic basalts constituting the oceanic crust a	re te	rmed
	(a)	MORBs	(b)	OIBs
	(c)	LIPs	(d)	CFBs
39.	Bow	en's Reaction Series composed of the plagic	oclas	e feldspar solid solution series is
	(a)	discontinuous reaction series	(b)	continuous reaction series
	(c)	crystal reaction series	(d)	crystal fractional series
40.	Calc	ite-carbonatite with a medium to fine graine	d is	called
	(a)	beforsite	(b)	sovite
	(c)	alvikite	(d)	ijolite
41.	Meta	amorphism occurs at temperatures and pressu	ires l	nigher than 200°C and
	(a)	250 MPa	(b)	300 MPa
	(c)	350 MPa	(d)	400 MPa
42.	High	-grade metamorphism takes place at tempera	ature	s greater than
	(a)	265°C	(b)	290°C
	(c)	320°C	(d)	340°C
	a			
43.	Cont	act metamorphism is often referred to as		metamorphism.
43.		act metamorphism is often referred to as high temperature - low pressure		metamorphism. high temperature - high pressure
43.	(a)	-	(b)	
	(a) (c)	high temperature - low pressure	(b) (d)	high temperature - high pressure low temperature - high pressure
	(a) (c) Folia	high temperature - low pressure low temperature - low pressure	(b) (d) s occ (b)	high temperature - high pressure low temperature - high pressure eurs as a result of cataclastic metamorphism
	(a) (c) Folia (a)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse	(b) (d) s occ (b)	high temperature - high pressure low temperature - high pressure curs as a result of
44.	(a) (c) Folia (a) (c) A me	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with	(b) (d) s occ (b) (d)	high temperature - high pressure low temperature - high pressure eurs as a result of cataclastic metamorphism regional metamorphism
44.	(a) (c) Folia (a) (c) A me	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism	(b) (d) s occ (b) (d) n large	high temperature - high pressure low temperature - high pressure eurs as a result of cataclastic metamorphism regional metamorphism
44.	(a) (c) Folia (a) (c) A ma (a)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with	(b) (d) s occ (b) (d) n larg (b)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called
44. 45.	(a) (c) Folia (a) (c) A me (a) (c) In me	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound	(b) (d) s occ (b) (d) n larg (b) (d)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed
44. 45.	(a) (c) Folia (a) (c) A me (a) (c) In me (a)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic	(b) (d) s occ (b) (d) n larg (b) (d) ded by	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic
44.45.46.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast	(b) (d) s occ (b) (d) n larg (b) (d) led by (b) (d)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic
44.45.46.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases	(b) (d) s occ (b) (d) n larg (b) (d) led by (b) (d)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic
44.45.46.	(a) (c) Folia (a) (c) A ma (a) (c) In ma (a) (c) In tri and p	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature
44.45.46.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri and p (a)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line
44.45.46.47.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri and p (a) (c)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines tie lines	(b) (d) s occ (b) (d) n larg (b) (d) (d) that (b) (d)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line knot lines
44.45.46.47.	(a) (c) Folia (a) (c) A ma (a) (c) In ma (a) (c) In tri and p (c) The A	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines tie lines ACF diagram is used for representing the ph	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that (b) (d) ase r	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line knot lines elation in Mafic rocks and
44.45.46.47.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri and p (c) The A (a)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines tie lines ACF diagram is used for representing the ph Calc-silicates	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that (b) (d) ase r (b)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line knot lines elation in Mafic rocks and Calcareous rocks
44.45.46.47.48.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri and p (c) The A (a) (c)	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines tie lines ACF diagram is used for representing the ph Calc-silicates Basic rocks	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that (b) (d) ase r (b)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line knot lines elation in Mafic rocks and
44.45.46.47.48.	(a) (c) Folia (a) (c) A me (a) (c) In me (a) (c) In tri and p (a) (c) The p (a) (c) The p	high temperature - low pressure low temperature - low pressure ated rock such as slates, schists, and gneisse contact metamorphism hydrothermal metamorphism etamorphic rock that shows no foliation with hornfels phyllite etamorphic rocks individual minerals bound idioblastic crystalloblast angular composition diagram mineral phases pressure are connected by lines is called cross lines tie lines ACF diagram is used for representing the ph Calc-silicates	(b) (d) s occ (b) (d) n larg (b) (d) led by (d) that (b) (d) ase r (b) (d)	high temperature - high pressure low temperature - high pressure curs as a result of cataclastic metamorphism regional metamorphism ge grain size is called granulite schist y their own crystal faces are termed xenoblastic poikioblastic coexist with each other at this temperature assambledge line knot lines elation in Mafic rocks and Calcareous rocks

50.	The A	AFM diagram is used for representing the pl	nase 1	relation in
	(a)	Ultamafic rocks	(b)	Calc-silicates
	(c)	Pelitic rocks	(d)	Calcareous rocks
51.	-	ograde metamorphism, low grade rocks anda ared is	ılusit	e phase disappeared and high grade rocks
	(a)	hornblende	(b)	plagioclase
	(c)	biotite	(d)	sillimanite
52.	In pr	ogressive metamorphism phase change from	ı calc	cite to wollastonite reaction is
	(a)	dehydration reaction	(b)	decarbonation reaction
	(c)	hydration reaction	(d)	carbonation reaction
53.	In Re	etrograde metamorphism Garnet Muscovite S	Schis	t change into
	(a)	Garnet Chlorite Schist	(b)	Garnet Wallostonite Schist
	(c)	Anorthite Muscovite Schist	(d)	Albite Muscovite Schist
54.	The	solid-solid reaction reactants Andalusite pro	duct	Kyanite, dP/dT is
	(a)	positive	(b)	negative
	(c)	neutral	(d)	None of the above
55.		is the most common indicator of ultr	ahig	h-pressure metamorphism.
	(a)	Sylvanite	(b)	Xenolith
	(c)	Coesite	(d)	Apatite
56.	The	shallowest levels of ocean crust are only we	akly	metamorphosed to
	(a)	zeolite facies	(b)	blueshcist facies
	(c)	eclogite facies	(d)	greenschist facies
57.	-	nne of constant metamorphic grade in the fiel morphic index minerals is	ld, it	separates metamorphic zones of different
	(a)	Isozone	(b)	Isograd
	(c)	Isofield	(d)	Isoplane
58.		morphic mineral assemblages with medium ipal minerals are hornblende and plagiocla		
	(a)	Marbles	(b)	Quartzites
	(c)	Ecogites	(d)	Amphibolites
59.	In Pa	nired metamorphic belts, metamorphism on	the	oceanic side belts of high pressure, low
	temp	erature were associated with metamorphism	on t	he continent side belts of
	(a)	low pressure, low temperature	(b)	high pressure, high temperature
	(c)	high pressure, low temperature	(d)	low pressure, high temperature
60.		Superior province (Archean craton) consists alite terrains, greenstone belts, gneiss terrain		
	(a)	metasedimentary belts	(b)	blueschist belts
	(c)	Ecoglite terrains	(d)	zeolite terrains
61.		ned quartz is attributed to deformation of the all properties and its presence can be used a	•	
	(a)	clay minerals	(b)	provenance
	(c)	sedimentary basin	(d)	rock age

62.	Sedi	ment diagenesis processes occur at relativel	y lov	v temperatures, typically below about
	(a)	150 °C	(b)	200 °C
	(c)	250 °C	(d)	300 °C
63.	A sea	am of sedimentary material that fills an ope	n frac	cture in and cuts across sedimentary rock
	strata	a or layering in other rock types is called		
	(a)	clastic dike	(b)	elutriation pipe
	(c)	diapir	(d)	pillar
64.		ls of colour formed by concentrations of iro	on ox	ides in irregular layers within a rock are
	calle			
	(a)	liesegangen bands	` ′	septarian bands
	(c)	varve	(d)	rhythmic bands
65.		Udden–Wentworth grain-size scale for sand	sedii	ments is
	(a)	0.125 to 3 mm	(b)	0.625 to 3 mm
	(c)	0.0625 to 2 mm	(d)	0.0135 to 2 mm
66.	Cong	glomerate that contains just two or three typ	e clas	st present is called
	(a)	monomict	(b)	oligomict
	(c)	polymict	(d)	terimict
67.	Heav	y minerals have densities greater than	{	g /cubic cm.
	(a)	3.25	(b)	3.00
	(c)	2.85	(d)	2.65
68.	In sa	ndstone classification the amount of matrix	pres	ent is between 15 – 75% is called
	(a)	wacke	(b)	arenite
	(c)	mudstone	(d)	lithic
69.	Sedi	mentary structures that provide information	abou	t the flow differentiate between upstream
	and o	lownstream directions is called		
	(a)	Unidirectional indicators	(b)	Polydirectional indicators
	(c)	Flow axis indicators	(d)	Flow pole indicators
70.	A stu	dy that focuses on the trace fossils in the ro	ck w	ould be a description of the
	(a)	tracefacies	(b)	biofacies
	(c)	ichnofacies	(d)	fossil facies
71.	Supr	atidal mudflat or sandflat in which evapori	te-sa	line minerals accumulate as the result of
	semi	arid to arid climate are called		
	(a)	Peat bogs	(b)	Fen
	(c)	Swamps	(d)	Sabkhas
72.		process in which hydrocarbons move alor	ng a	porous and permeable layer to its final
		mulation is called		
		primary migration	` ′	secondary migration
	(c)	oil phase migration	(d)	migration in solution
73.	Whic	ch sediment deposits is poorly sorted among	g glac	eial, river, beach and aeolian.
	(a)	glacial	(b)	river
	(c)	beach	(d)	aeolian
74.	Mov	ement of the shoreline seawards as a result o	fsed	imentation occurring at the coast is called
	(a)	transgression	(b)	regression
	(c)	aggradation	(d)	None of these

75.	sediment supply are referred to as			
			(h)	lowstand systems tract (LST)
		ransgressive systems tract (TST)	` ′	· · · · · ·
76	` ′	cretionary ridge and Island arc form a bas	` ′	• , ,
70.	arc is		111 (11	at accumulates seament from the island
	(a) F	Forearc basin	(b)	Transtensional basin
	(c) R	Rift basin	(d)	Passive margin basin
77.	In QFL	triangle, Craton sands are clustered near t	the	
	(a) () pole	(b)	F pole
	(c) L	_ pole	(d)	centre
78.	What p	pattern is one of the distinctive characteris	tics o	of a shallowing-up deltaic succession?
	(a) n	nixed load	(b)	fining up
	(c) c	coarsening-up	(d)	muddy
79.	If the 1	imestone is clast-supported it is termed		
	(a) g	grainstone	(b)	packstone
	(c) b	ooundstone	(d)	framestone
80.	The se	dimentary basins of India, onland and offsl	hore	up to the isobath.
	(a) 1	00m	(b)	150m
	(c) 2	200m	(d)	250m
81.	The nu	imber one environmental problem is excess	sive l	numan
	(a) v	vaste	(b)	population growth
	(c) h	nazard induces	(d)	pollution
82.	The ea	rth is the only suitable habitat we have, an	d its	resources are
	(a) li	imited	(b)	plenty
	(c) f	inite	(d)	exhaust
83.	As peo	ople become educated, the population grow	vth ra	ate is
	` /	ncreased	` ′	reduced
	(c) la	•	` ′	zero
84.		nany percent of the solar energy reaching increases its temperature.	the	Earth is absorbed on the earth's surface
	(a) 6		(b)	70%
	(c) 7	75%	(d)	80%
85.	Carbon	n dioxide in the atmosphere has increased of	causi	ing more heat to be trapped in
	(a) le	ower atmosphere	(b)	upper atmosphere
	(c) S	Subsurface	(d)	green plants
86.	Above	the surface of the earth, Ozone layer forms	s bet	ween
	(a) 2	0 to 50kms	(b)	20 to 70kms
	(c) 3	00 to 80kms	(d)	30 to 90kms
87.		stems are divided into terrestrial or landba	sed e	ecosystems and
	(a) b	piotic ecosystem	(b)	aquatic ecosystems
	(c) v	vetland ecosystem	(d)	atmospheric ecosystem

88.	Nitro as	ogen fixing bacteria and fungi in soil gives th	nis im	portant element to plants, which absorb it
		Nitric acid	(b)	Nitrites
	` /	Nitrogen oxide	` ′	Nitrates
89.	` '	eral term for particles suspended in air is	()	
		Aerosol	(b)	Smog
	` /	Mist	` ′	Fume
90.		ng Major Greenhouse Gases, the concentrat	ions	(ppb) highest is
	(a)	Carbon dioxide	(b)	Methane
	(c)	Nitrous oxide	(d)	CFCs
91.	Gree	nhouse gases trap heat in the form of infra-	red ra	adiation near the earth's surface is known
	as			
	(a)	Greenhouse Effect	(b)	Photosynthesis
	(c)	Photochemical Effect	(d)	Radiation Effect
92.	Perm	sissible noise level during day time in resid	entia	l areas in India is
	(a)	45 dB	(b)	55 dB
	(c)	60 dB	(d)	65 dB
93.	EIA	in India was first started in 1977-78 with ev	valua	tion of projects.
	(a)	industrial	(b)	hydropower
	(c)	road construction	(d)	river valley
94.	Almo	ost all projects were implemented with little	e or n	o environment concerns in India, till
	(a)	1970s	(b)	1975s
	(c)	1980s	(d)	1985s
95.		6 December, 2004 Great earthquake in Sun	natra	, Indonesia that killed almost
	peop			
	` '	245,000	` ′	90,000
	` '	12,500	` ′	7,500
96.		low Earthquakes is the focal depth less than		
	` '	40 km	` ′	50 km
	` /	70 km	` /	80 km
97.		ami in the deep water of the ocean may trav		•
	` /	200 km/h	` /	400 km/h
	` '	600 km/h	` ′	800 km/h
98.		cal flood of short duration generally resulting	g froi	m heavy rainfall in the immediate vicinity
	is ca		(h)	yahan flaad
	` '	flash flood	` ′	urban flood
00	` '	river flood	(d)	coastal flood
99.		of the landslide occurred in NE India is du		anthronogonia activity
	` '	earthquake	(b)	anthropogenic activity
100	` '	flood	` ′	erosion
LUU.		nic Zone Map of India is divided into		eismic zones.
	` '	Six	` /	five
	(c)	four	(a)	three