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## ENTRANCE EXAMINATION FOR ADMISSION, MAY 2010.

## M.Sc. (APPLIED GEOLOGY)

**COURSE CODE: 367** 

Register Number :



Signature of the Invigilator (with date)

COURSE CODE: 367

Time: 2 Hours

Max: 400 Marks

## Instructions to Candidates:

- 1. Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.
- 2. Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) in the relevant box of the ANSWER SHEET <u>using HB pencil</u>.
- 4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.
- 5. Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. Do not open the question paper until the start signal is given.
- 7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- 8. On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

1.	A co	A coarse grained rock mainly composed of orthopyroxene and plagioclase is called as											
	(A)	Norite	(B)	Gabbro	(C)	Lherzolite	(D)	Harzburgite					
2.	Whi	ch of the followin	ıg is a	concordant int	rusive	body?							
	(A)	Cone sheet	(B)	Ring dike	(C)	Stock	(D)	Lopolith					
3.		en a single pyroxe alled as	ene er	nvelops several	well-de	veloped plagiocla	ise lat	ths, the texture					
	(A)	Ophitic texture	(B)	Poikiloblast	(C)	Porphyroblast	(D)	Granoblast					
4.	Pyroclastic deposits are usually found associated with												
	(A)	Explosive volca	no		(B)	Shield volcano							
	(C)	Pahoehoe flow			(D)	Ropy lava							
5.		ins that crystalli		a significantly	larger	size than those	of the	e matrix, in an					
	(A)	Phenocrysts			(B)	Porphyroblasts							
	(C)	Xenoliths			$_{\alpha}(\mathbb{D})$	Relic inclusions							
6.	Slices of oceanic crust that have been emplaced (obducted) onto continental crust												
	(A)	Mylonite	(B)	Migmatite	(C)	Ophiolite	(D)	Granulite					
7.	Outer core is liquid while the inner core is solid because												
	(A)	Outer core is he	eated	more than the	inner co	ore							
	(B)												
	(C)	Outer core is in	conta	act with liquid	mantle								
	(D)	Inner core is ric	ch in i	iron and nickel	while o	uter core is not							
8.		th's crust consis		continental a	nd oce	anic parts. Whi	ch of	the following					
	(A)	Oceanic crust h	as glo	bal layering w	hile con	tinental crust do	esn't.						
	(B)	Oceanic crust is	thin	ner compared t	o contir	nental crust							
	(C)	Oceanic crust is	your	nger than conti	nental o	rust							
	(D)	Oceanic crust is	s mor	e metamorphos	ed com	pared to continer	ntal cr	rust					

9.	Which of the following regions would have thicker crust											
	(A)	Mountain belt	t		(B)	Mid Oceanic r	ridges					
	(C)	Precambrian	Shield		(D)	Island arc						
10.	Con	tinental crust is	s higher	r in elevation t	han oce	anic crust beca	use					
	(A)	It is more buo	yant th	an oceanic cru	ıst							
	(B)	It is older tha	n ocean	ic crust								
	(C)	It is younger	than oc	eanic crust								
	(D)	It is denser th	an ocea	anic crust								
11.	The	average thickn	ess of a	lithospheric p	olate is a	pproximately						
	(A)	35 km	(B)	8 km	(C)	5 km	(D)	100 km				
12.	A cr	ystal appears u	inchang	ged when rotat	ed 180°.	Such an axis o	f rotatio	on is axis of				
4	(A)	1-fold symme	try		(B)	2-fold symmet	try					
	(C)	3-fold symme	try		(D)	4-fold symmet	try					
13.	In a	crystal 4 non-p	arallel	faces intersec	t in a po	int. Form of the	ese face	s is				
	(A)	Prism	(B)	Pinacoid	(C)	Pyramid	(D)	Dome				
14.	Electronegativity of elements increases											
	(A) From left to right of the Periodic table											
	(B)	(B) From right to left of the Periodic table										
	(C)	In atoms that	have p	artially filled	outer sh	ell						
	(D)	With decrease	e in neu	itrons								
15.	Str	acturally quartz	z is a									
	(A)	Framework s	ilicate		(B)	Ring silicate						
	(C)	Chain silicate	•		(D)	Isolated slilic	ate					
16.		nineral is scrat ns scale is	chable	by quartz but	not by	apatite. Hardn	ess of t	his mineral or				
	(A)	Less than apa	atite		(B)	less than 7						
	(C)	more than 7			(D)	less than 5						
17.	Wh	ich of the follow	ring min	neral is a chair	n silicate	•						
	(A)	Augite	(B)	Biotitie	(C)	Anorthite	(D)	Olivine				

18.	Which of the following is a K-feldpar											
	(A)	Oligoclase	(B)	Orthoclase	(C)	Andesine	(D)	Anorthite				
19.	If a set of equivalent crystal faces are related to each other by a three fold axis of rotation, what will be angle between these faces?											
	(A)	30°	(B)	60°	(C)	90°	(D)	120°				
20.	Whi	ch one of the foll	owing	minerals cryst	allize ir	n the Orthorhom	bic sy	stem?				
	(A)	Calcite	(B)	Aragonite	(C)	Rhodochrosite	(D)	Dolerite				
21.	Which one of the following minerals crystallize in cubic system?											
	(A)	Spinel	(B)	Siderite	(C)	Hematite	(D)	Corundum				
22.	Whi	ch one of the foll	owing	mineral belong	gs to sp	inel group?						
	(A)	Zircon	(B)	Ilmenite	(C)	Hematite	(D)	Magnetite				
23.		axial ratio of a belong to?	cryst	al is determine	ed as 0.	82: 1.94. Which	crys	tal system this				
	(A)	Isometric or Te	etrago	nal	(B)	Hexagonal or T	'etrag	onal				
	(C)	Orthorhombic	or Mo	noclinic	(D)	Isometric or Hexagonal						
24.	Which one of the following is an open form?											
	(A)	Prism	(B)	Octahedron	(C)	Tetrahedron	(D)	Pyramid				
25.	Whi	Which one of the following is permitted in the Miller's indices?										
	(A)	Zero	(B)	Infinity	(C)	Real numbers	(D)	Fractions				
26.	Whi	ich one of the fol	lowing	g forms belongs	to the	isometric system	?					
	(A)	Pyramid	(B)	Prism	(C)	Octahedral	(D)	Sphenoid				
27.	A P	yroxine mineral	havin	g equal amount	of CaC	and FeO molec	ules is	known as				
	(A)	Hedenbergite	(B)	Pigeonite	(C)	Bronzite	(D)	Diopside				
28.	Plag	gioclase having	30 to 5	0 % anorthite o	ontent	is known as						
	(A)	Anorthoclase	(B)	Andesine	(C)	Oligoclase	(D)	Labradorite				

29.	Which one of the following statements about Andalusite, Kyanite and Sillimanite is WRONG?												
	(A)	They have san	ne cher	nical formula									
	(B)	Commonly one	e of the	m is present in	Metan	norphosed p	eptic rocks	ă.					
	(C)	If all the three determined.	e are	present the pr	essure	and tempe	rature cor	ditions can be					
	(D)	They have san	ne crys	tal structure									
30.		ck containing P poclase is known		ysts of Olivine	set in a	a fine graine	d matrix o	f pyroxene and					
	(A)	Gabbro	(B)	Basalt	(C)	Norite	(D)	Diorite					
31.	The	The major minerals present in granite are											
	(A)	Microcline, qu	artz ar	nd albite	(B)	Sanidine,	quartz and	labradorite					
	(C)	Orthoclase, qu	artz aı	nd nepheline	(D)	Nepheline	, quartz an	d labradorite					
32.	Volc	anic equivalent	of the	plutonic rock g	ranodio	orite is							
	(A)	Rhyolite	(B)	Rhodacite	(C)	Dacite	(D)	Andesite					
33.	At the binary eutectic which of the following phases coexist												
	(A)	A crystal phase and a liquid											
	(B)	The second secon											
	(C)	Two different	crystal	phases									
	(D)	Three differen	t cryst	al phases									
34.	Com	plete solid solu	tion is	exhibited at 1 a	tmospl	heric pressu	re by						
	(A)	Albite - Anort	hite		(B)	Diopside -	Enstatite						
	(C)	Enstatite – Fe	rrosilit	e	(D)	Actinolite	- Tremolit	e					
35.	Kon	natites are typic	ally for	and in									
	(A)	Archean green	stone	belts	(B)	Proterozoi	c mobile be	elts					
	(C)	Proterozoic se	diment	ary basins	(D)	Tertiary v	alconic pro	vinces					
36.	Pred	dominant magm	a that	erupted during	the De	eccan Volcan	ism is						
	(A)	Alkali basalt			(B)	Tholeritic	basalt						
	(C)	Andesite			(D)	Trachyte							

37.	If the orientation of the principal stress axes X, Y and Z does not change during the deformation, the deformation is known as											
	(A)	Simple shear	(B)	Pure shear	(C)	Tria	xial stress	(D)	Axia	l strain		
38.	A fo	ld which is conc	ave up	ward is calle	d as							
	(A)	Synform	(B)	Antiform		(C)	Syncline		(D)	Anticline		
39.	A fo	ld in which your	nging d	lirection is av	vay f	rom	the fold cor	e is ca	ılled			
	(A)	Synform	(B)	Antiform		(C)	Syncline		(D)	Anticline		
40.	Fold	with alternate	sharp	and broad hi	nges	are o	called					
	(A)	Chevron fold				(B)	Cuspate f	old				
	(C)	Box fold				(D)	Concentr	ic fold				
41.	If th	ne axial planar c	leavag	e is steeper t	han	the d	ip of the fo	ld lim	b, the	n limb is called		
	(A)	Normal limb				(B)	Overturn	ed lim	ıb			
	(C)	Back limb				(D)	Inverted	limb				
42.	If ra	ake/pitch of the	net slip	on the fault	plar	ne is	90°, then th	e faul	t will	be		
	(A)	Dip-slip fault				(B)	Strike-sli	p faul	t			
	(C)	Oblique slip fa	ult			(D)	Hinge (O	blique	) faul	t		
43.	If the strike of a dip slip normal fault is N30°E, then the trend of the net slip will be											
	(A)	N60°E	(B)	S60°E		(C)	N30°W		(D)	S30°W		
44.	Met	amorphic facies	are de	efined by the								
	(A)	Critical miner	al asse	emblages								
	(B)	Texture and st	tructu	re of the rock	type	es						
	(C)	Particular rock	k type									
	(D)	Pressure-Tem	peratu	re condition								
45.	Met	tamorphic grade	refers	to								
	(A)	Particular roc	k type									
	(B)	Intensity of m	etamo	rphism								
	(C)	Texture and s	tructu	re of the rock	type	es						
	(D)	Critical miner	al asse	emblages								

46.	Which of the following metamorphic facies is characterized by maximum temperature and minimum pressures											
	(A)	Blueschist	(B)	Greenschist								
	(C)	Hornblende-hornfels facies	(D)	Sanidinite facies								
47.	The	mineral omphacite is characteristic of										
	(A)	Greenschist facies	(B)	Granulite facies								
	(C)	Blueschist facies	(D)	(D) Eclogite facies								
48.	In case of Barrovian metamorphism, the lowest grade of metamorphism is marked by the mineral											
	(A)	Biotite (B) Garnet	(C)	Chlorite (D) Kyanite								
49.	Anh	ydrous rocks are characteristically pre	sent i	n rocks belonging to								
	(A)	Eclogite facies	(B)	Greenschist facies								
	(C)	Amphibolite facies	(D)	Granulite facies								
50.	The	reaction Ferrosilite + Diopside = Enst	- Hedenbergite, is a kind of									
	(A)	Solid-solid net-transfer reaction	(B)	Devolatilization reaction								
	(C)	Ion-exchange reaction	(D)	Oxidation reaction								
51.	In the triangular ACF diagrams used to designate the mineralogical and chemical composition of metamorphic facies, the 'A' apex represent											
	(A)	$Al_2O_3$	(B)	Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub> - Na <sub>2</sub> O - K <sub>2</sub> O								
	(C)	$Al_2O_3 + Fe_2O_3 - K_2O$	(D)	$Al_2O_3 + Na_2O + K_2O$								
52.	Paired metamorphic belt is a characteristic feature of											
	(A)	Continental collision zone	(B)	Subduction zone								
	(C)	Sea floor spreading zone	(D)	Continental rift zone								
53.	Whi	ch of the metamorphic zone of Barrow	is sim	ailar to the greenschist facies?								
	(A)	Biotite zone	(B)	Garnet zone								
	(C)	Staurolite zone	(D)	Sillimanite zone								
54.	The	high pressure polymorph of silica, coe	site, si	tishovite, may be associated with								
	(A)	Hydrothermal metamorphism	(B)	Burrial metamorphism								
	(C)	Contact metamorphism	(D)	Impact metamorphism								

55.	Sedimentary breccia is a rare rock type because										
	(A)	Gravel is rounded quickly during tran	sport								
	(B)	Clay is less abundant than other sedi	menta	ary particles							
	(C)	Feldspars are chemically unstable									
	(D)	Sand deposits are typically well sorte	d								
56.	Whi	ch of the following is detrital sediment	?								
	(A)	Broken sea shells	(B)	Ions in solution							
	(C)	Graded bedding	(D)	Quartz sand							
57.		n aggregate of sediment consists of par to be	ticles	that are all about the same size, it is							
	(A)	Well sorted (B) Sandstone	(C)	Poorly rounded (D) Lithified							
58.	Whi	ch of the following can be used to deter	mine	paleocurrent direction?							
	(A)	Mud cracks	(B)	Turbidity currents							
	(C)	Graded bedding	(D)	Cross-bedding							
59.	Bedding or stratification in a sedimentary rock										
	(A)	(A) Is due to directed pressure from earth forces									
	(B)	Results from heat									
	(C)	Is always exactly horizontal									
	(D)	Represents variations which took pla	ce du	ring deposition							
60.	The	least stable material in clastic detritus	s is								
	(A)	Quartz (B) Amphibole	(C)	Olivine (D) Hornblende							
61.	Gra	ded bedding usually signifies									
	(A)	Fast-moving water that gradually slo	wed d	lown							
	(B)	Slow-moving water that gradually sp	eeded	up							
	(C)	Stagnant water									
	(D)	Deposition on dry land									

62.	Mud cracks are most likely to form by												
	(A)	Rapidly changir	ng pat	tterns of erosion a	and d	eposition							
	(B)	Gently oscillating	ng wa	ves									
	(C)	Periodic exposu	re to	the air and dryin	g out								
20	(D)	Fast-moving wa	ter th	nat gradually slov	wed d	own							
63.	Whi	ch would be least	likel	y to indicate a de	sert e	environment?							
	(A)	Large cross-bed	s		(B)	Limestone							
	(C)	Evaporite			(D)	Mud cracks		1					
64.	Which of these environments can produce cross beds?												
	(A)	Sand dunes	(B)	River Deltas	(C)	Alluvial fans	(D)	All the above					
65.	In which of the following do foreset beds occur?												
	(A)	Alluvial fans			(B)	Deltas							
	(C)	Point bars			(D)	Natural levees							
66.		rainage pattern :	in wh	nich streams flov	v in a	and out of lakes	with	irregular flow					
	(A)	Radial	(B)	Rectangular	(C)	Longitudinal	(D)	Deranged					
67.	Erosional remnants of floodplains that are higher than the current level of a stream are:												
	(A)	Incised meande	rs		(B)	Cut banks							
	(C)	Natural bridges	3		(D) Stream terrace		3						
68.	The dry lake beds in many deserts are												
	(A)	Playas	(B)	Pediments	(C)	Bajadas	(D)	Inselbergs					
69.	In u	niform flat rocks	, drai	nage patterns ter	nd to	be							
	(A)	Dendritic	(B)	Radial	(C)	Trellis	(D)	Braided					
70.	Mas	s wasting refers	to ma	terial moved prin	narily	y by:							
	(A)	Wind	(B)	Running water	(C)	Ice	(D)	Gravity					
71.	The	process whereby	hydr	ogen and hydroxy	yl ion	s of water replace	ions	in minerals is:					
	(A)	Hydrolysis	(B)	Oxidation	(C)	Carbonization	(D)	Laterization					

72.	Why	clay doesn't we	ather										
	(A)	The grains are	too la	rge									
	(B)	It is chemically	stabl	e at the surface									
	(C)	It doesn't occur	in ar	eas prone to wea	therir	ng							
	(D)	It has too many	ions										
73.	Cora	al reefs are gener	ally f	ound in									
	(A)	Polar region			(B)	Sub polar regio	n						
	(C)	Tropical region			(D)	All regions							
74.	The Olive series is developed in												
	(A)	Simla	(B)	Kashmir	(C)	Kumaon	(D)	Salt range					
75.	What is the age of Muth quartzite?												
	(A)	Ordovician			(B)	Silurian							
	(C)	Devonian			(D)	Carboniferous							
76.	Whi	ch group provide	es the	fast moving inve	ertebra	ate?							
	(A)	Cephalopoda			(B)	Echinodermata	ι						
	(C)	Gastropoda			(D)	Brachiopoda							
77.	When did the Trilobite disappear from the Earth?												
	(A)	End of Ordovic	ian		(B)	End of Devonian							
	(C)	End of Permia	n		(D)	End of Jurassi	С						
78.	Petrified wood is an example of												
	(A)	Encrustation	(B)	Substitution	(C)	Altercation	(D)	Desiccation					
79.	Dinosaurs are reported from the rocks of												
	(A)	Paleozoic	(B)	Mesozoic	(C)	Tertiary	(D)	Quaternary					
80.	Petr	oleum and Natu	ral ga	s are chiefly con	nposed	l of							
	(A)	Hydrogen			(B)	Hydrogen & Carbon							
	(C)	Nitrogen			(D)	Oxygen							
81.	The	fossil contents o	f elem	entary canal of	anima	ls are known as							
	(A)	Burrows	(B)	Mould	(C)	Trails	(D)	Coprolites					

82.	<ol><li>One of the following is the rarest metal in the earth crust.</li></ol>										
	(A)	Gold	(B)	Platinum	(C)	Rhenium	(D)	Niobium			
83.	Wal	l rock alteration	is a cl	naracteristic fea	ture of	ī					
	(A)	Magmatic depo	sits		(B)	Hydrotherma	l deposi	ts			
	(C)	Metamorphic d	leposit	ss	(D)	Volcano-sedin	Volcano-sedimentary deposits				
84.	One	e of the following	g is an	ore mineral of	copper.						
	(A)	Bornite	(B)	Braunite	(C)	Bixbyite	(D)	Boehmite			
85.	Talc	deposit can be f	ormed	by metasomat	ism of	one of the follow	ving roo	eks.			
	(A)	Limestone			(B)	Shale					
	(C)	Ultramafic roc	k		(D)	Granite					
86.	The	reason for the c	orrect	answer to the p	reviou	s question is th	at this	rock contains			
	(A)	Mg silicates	(B)	Fe silicates	(C)	Al silicates	(D)	Ca silicates			
87.	Identify the odd type of ore deposit among the following, by considering the age of known ore deposits.										
	(A)	Banded iron fo	rmatio	on	(B)	Ferromanganese nodules					
	(C)	Lateritic bauxi	ite		(D)	Phosphatic nodules					
88.	In the previous question, the odd type of ore deposit has formed in the following geological time.										
	(A)	Precambrian	(B)	Paleozoic	(C)	Mesozoic	(D)	Tertiary			
89.	Wha	at is called "gree	n mar	ble"?							
	(A)	Amphibolite	(B)	Pyroxenite	(C)	Peridotite	(D)	Serpentinite			
90.	"Gr	een marble" is m	ined a	s building stone	e from						
	(A)	Amphibolite of	Dhar	war schist belts							
	(B)	Pyroxenite of N	Vausal	hi ultramafic co	mplex						
	(C)	Peridotite of S	ukinda	a ultramafic con	nplex						
	(D)	Serpentinite of	Risha	abdev ultramafi	c belt						

91. One of the following sulphide minerals can be transluscent or transparent.											
(A)	Pyrite	(B)	Chalcopyrite	(C)	Sphalerite	(D)	Galena				
One	of the following	oxide	minerals can be	transl	uscent or transp	arent					
(A)	Chromite	(B)	Pyrolusite	(C)	Wolframite	(D)	Cassiterite				
Gold	deposits are NO	T ass	sociated with one	e of the	e following.						
(A)	Laterite			(B)	Banded iron for	matic	n				
(C)	Conglomerate			(D)	Shale						
Urai	nium deposits ha	ve N	OT formed by on	e of th	e following proce	sses.					
(A)	Detrital sedime	ntary	,	(B)	Circulation of groundwater						
(C)	Hydrothermal			(D)	Magmatic						
Eme	erald is a gem var	riety	of								
(A)	Corundum	(B)	Beryl	(C)	Topaz	(D)	Tourmaline				
Which one of the following pairs of minerals is NOT dimorphic?											
(A)	Graphite-diamo	ond		(B)	Calcite-aragoni	te					
(C)	Magnetite-hem	atite		(D)	Kyanite-sillima	nite					
Con	tact metasomatic	depo	sits are more co	mmon	in						
(A)	Shale	(B)	Greywacke	(C)	Sandstone	(D)	Limestone				
One of the following ore minerals does not contain copper.											
(A)	Covellite	(B)	Pyrrhotite	(C)	Bornite	(D)	Chalcocite				
The largest zinc deposit in India is located at											
(A)	Zawar, Rajasth	an		(B)	Agucha, Rajast	han					
(C)	Agnigundla, Ar	idhra	Pradesh	(D)	Sargipalle, Oris	ssa					
The	largest bauxite r	nines	in India is locat	ted at							
(A)	Panchpatmali,	Oriss	а	(B)	Korba, Madhya Pradesh						
(C)	Yercaud, Tamil	Nad	u	(D)	Kolli Hills, Tamil Nadu						
	(A) One (A) Gold (A) (C) Uran (A) (C) Eme (A) Whi (A) (C) Con (A) One (A) The (A) (C) The (A)	(A) Pyrite  One of the following of (A) Chromite  Gold deposits are NO (A) Laterite (C) Conglomerate  Uranium deposits had (A) Detrital sedime (C) Hydrothermal  Emerald is a gem various (A) Corundum  Which one of the following (C) Magnetite-hem  Contact metasomatic (A) Shale  One of the following (A) Covellite  The largest zinc deposite deposite (A) Zawar, Rajasth (C) Agnigundla, Article (A) Panchpatmali,	(A) Pyrite (B)  One of the following oxide (A) Chromite (B)  Gold deposits are NOT ass (A) Laterite (C) Conglomerate  Uranium deposits have NO (A) Detrital sedimentary (C) Hydrothermal  Emerald is a gem variety (A) Corundum (B)  Which one of the following (A) Graphite-diamond (C) Magnetite-hematite  Contact metasomatic deposit (A) Shale (B)  One of the following ore m (A) Covellite (B)  The largest zinc deposit in (A) Zawar, Rajasthan (C) Agnigundla, Andhra  The largest bauxite mines (A) Panchpatmali, Oriss	(A) Pyrite (B) Chalcopyrite  One of the following oxide minerals can be (A) Chromite (B) Pyrolusite  Gold deposits are NOT associated with one (A) Laterite (C) Conglomerate  Uranium deposits have NOT formed by one (A) Detrital sedimentary (C) Hydrothermal  Emerald is a gem variety of (A) Corundum (B) Beryl  Which one of the following pairs of mid (A) Graphite-diamond (C) Magnetite-hematite  Contact metasomatic deposits are more councils (A) Shale (B) Greywacke  One of the following ore minerals does not (A) Covellite (B) Pyrrhotite  The largest zinc deposit in India is located (A) Zawar, Rajasthan (C) Agnigundla, Andhra Pradesh  The largest bauxite mines in India is located (A) Panchpatmali, Orissa	(A) Pyrite (B) Chalcopyrite (C)  One of the following oxide minerals can be transl (A) Chromite (B) Pyrolusite (C)  Gold deposits are NOT associated with one of the (A) Laterite (B) (C) Conglomerate (D)  Uranium deposits have NOT formed by one of the (A) Detrital sedimentary (B) (C) Hydrothermal (D)  Emerald is a gem variety of (A) Corundum (B) Beryl (C)  Which one of the following pairs of minerals (A) Graphite-diamond (B) (C) Magnetite-hematite (D)  Contact metasomatic deposits are more common (A) Shale (B) Greywacke (C)  One of the following ore minerals does not contact (A) Covellite (B) Pyrrhotite (C)  The largest zinc deposit in India is located at (A) Zawar, Rajasthan (B) (C) Agnigundla, Andhra Pradesh (D)  The largest bauxite mines in India is located at (A) Panchpatmali, Orissa (B)	(A) Pyrite (B) Chalcopyrite (C) Sphalerite  One of the following oxide minerals can be transluscent or transport (A) Chromite (B) Pyrolusite (C) Wolframite  Gold deposits are NOT associated with one of the following.  (A) Laterite (B) Banded iron for (C) Conglomerate (D) Shale  Uranium deposits have NOT formed by one of the following proce (A) Detrital sedimentary (B) Circulation of g (C) Hydrothermal (D) Magmatic  Emerald is a gem variety of  (A) Corundum (B) Beryl (C) Topaz  Which one of the following pairs of minerals is NOT dimorp (A) Graphite-diamond (B) Calcite-aragonic (C) Magnetite-hematite (D) Kyanite-sillima (C) Magnetite-hematite (C) Sandstone  One of the following ore minerals does not contain copper.  (A) Covellite (B) Pyrrhotite (C) Bornite  The largest zinc deposit in India is located at (A) Zawar, Rajasthan (B) Agucha, Rajast (C) Agnigundla, Andhra Pradesh (D) Sargipalle, Orise  The largest bauxite mines in India is located at (A) Panchpatmali, Orissa (B) Korba, Madhya	(A) Pyrite (B) Chalcopyrite (C) Sphalerite (D)  One of the following oxide minerals can be transluscent or transparent.  (A) Chromite (B) Pyrolusite (C) Wolframite (D)  Gold deposits are NOT associated with one of the following.  (A) Laterite (B) Banded iron formation (C) Conglomerate (D) Shale  Uranium deposits have NOT formed by one of the following processes.  (A) Detrital sedimentary (B) Circulation of ground (C) Hydrothermal (D) Magmatic  Emerald is a gem variety of  (A) Corundum (B) Beryl (C) Topaz (D)  Which one of the following pairs of minerals is NOT dimorphic?  (A) Graphite-diamond (B) Calcite-aragonite  (C) Magnetite-hematite (D) Kyanite-sillimanite  Contact metasomatic deposits are more common in  (A) Shale (B) Greywacke (C) Sandstone (D)  One of the following ore minerals does not contain copper.  (A) Covellite (B) Pyrrhotite (C) Bornite (D)  The largest zinc deposit in India is located at  (A) Zawar, Rajasthan (B) Agucha, Rajasthan  (C) Agnigundla, Andhra Pradesh (D) Sargipalle, Orissa  The largest bauxite mines in India is located at  (A) Panchpatmali, Orissa (B) Korba, Madhya Pradesh				