Mineral Exploration & Mining

I. Mineral Exploration

 When are conditions right to open 	18	1 8	m	ıne) (
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	teps for locating ore de	-	
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		4	
II. Subsurface Min			·
1. Define the	e term subsurface mini	ng.	
Subsu	urface Mining -		
2. List three	types of subsurface m	ining.	
1	2.		3
3. Match the	e subsurface mining tec	chniques to the correct def	finitions.
1	shearer machine me	oves back and forth transpo	rting coal on a conveyor
2	hot water is injected	d to dissolve an ore and is re	emoved with compressed air
3	rooms are cut into	a seam and pillars of coal su	apport the roof
a. roo	m-and-pillar mining	b. longwall mining	c. solution mining
III. Surface Mining	K		
1. Define the	e term surface mining.		
Surfac	ce Mining -		
2. List four	types of surface mining	;.	
1	2	3	4

5. Match the surface mini	ig techniques to the corre	et aetimitions.	
1 aggregates	such as sand, gravel, and o	crushed rock are ex	tracted
2 ore is mine	ed downward, layer by laye	er	
3 sea water	placed in shallow ponds ev	aporate and form sa	ılt crystals
4 soil & ove	rburden removed; exposed	coal extracted; soil	& overburden refilled
a. open-pit mining	b. surface coal mining	c. quarrying	d. solar evaporation
IV. Placer Mining			
1. Define the term placer of	leposits.		
Placer Deposits -			
2. Where do placer deposi	ts tend to accumulate?		
V. Smelting		•	
1. List the steps of how mo		_	
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VI. Undersea Mining		_	
1. List four mineral resour			
	23		
2. What are two reasons th	<u> </u>		
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