

Grade VII







a) Cor e b) Mant le c) Silica d) None of these v. The Deccan plat eau is made up of a) Granite c) Basalt d) Both (a) and (c) b) Clay (i) b ii) d iii) a iv) b v) c **III** Multiple choice questions 1. Where is the deepest mine in the world located? a) South America b) South Africa c) Sout h I ndia d) South Australia 2. The depth of the deepest mine in South Africa is. a) One km b) two km d) four km c) three km 3. The upper most layer of the earth's surface is called. a) The crust b) The brust c) The roads d) The forest 4. What is the radius of the earth? a) 3671 km b) 7163 km c) 6371 km d) 1736 km 5. Any natural mass of mineral matter that makes up the earth's crust is called a b) Road a) Rock c) Sediment d) None of these 6. The sediments are transported and deposited by a) Wind b) Water c) Wind and wat er d) None of these 7. The process of transformation of the rock from one form to another is known as : a) Road cycle b) Food cycle c) Rock cycle d) All of these 8. Which rock is the molt en magma made up of ? a) I gneous b) Met amor phic c) Sediment ar y d) None of these 9. What is the Latin term of I gneous? a) I gnis b) Sedimentum c) Met amor phose d) None of these 10. Rocks which cont ain f ossils are called b) I gneous rocks a) Met amor phic rocks c) Cor e d) Sediment ary rocks 3. a 6. c 9. a 1. b 2. d 4. c 5.a 7.c 8. a 10. d

iv. Just beneath the crust lies





					Red Breeder
		IV Mu	tiple choice que	stions	]
1. Deepest mine	in the wor	ld is locat ed at	:		
a) Sout h	America	b) South Afri	ca c) Sout h	Australia d)	Sout h I ndia.
2. Which rocks	ar e known	as primary rock	s: 0 0		
a) I gneo	us rocks		b) Sedim	entary rocks	
c) Met an	norphic roo	ks	d) None o	of these	
3. Sandst one is	made from	n grains of :			
a) Limest	t one	b) Sil <mark>ic</mark> on	c) Rocks	d)	Sand
4. Radius of the	e earth is :				
a) 2,500	km	b) 367 km	c) 7,163 l	km d)	6,371 km
5. The Deccan p	olat eau is n	nade up of :			
a) Granit	e	b) Clay	c) Basalt	d)	Both (a) and (c)
	1. b 2	.a 3.d	4.d 5.c		
			Fill in the Blan	ks	
1 Cial is some					-
1. Sial is compos			and		
2. Beneath the				6 . I	
			of the volu		
		consists of the	mant le and		makes the core on
the earth.					
5. Met amor phic				_word met am	orphose.
6. The red fort					
1. Silica and	2. Mant le	3. 0. <mark>5%</mark>	4. 16%	5. Gree	ek 6. Red
alumina					sandst one

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				II Fill	in the Bla	anks		]		
i. The	e cent r al c	ore of the	earth has ver	y high te	emper at ur e	and			•	
ii. O	ur earthis	s const ant ly	under going o	hanges	0					
iii. Tł	ne earthis	made up o	f several			Layer	s with one	inside	anot her .	
			made up of						and	d is
	d nife.									
v. Ig	neous and	sediment a	ary rocks car	n change	int o			2 roc	ks under gr	eat
			d pressure.					-9		
	<u>i</u> ) Pressu	re ii	) I nside;	iii) Co	oncentric	iv) N	Nickel;	v) Me	et amor phic	;
			utside			Iror		heat	-	
						17				
				111 F	ill in the l	Blanks		7		
1. Lav	/a is the m	olt en magm	nafrom		C	of the	earth's su	ur f ace		
			, the ea							
	-									
	nthe ocea									
4. Ma	ant le for m	s about		of	fthe earth	ı's volu	ime.			
			about					nigh te	emperature a	and
							2	U	·	
6. Lir	nest one ur	nder excess	sive heat and	pr essur e	changes in	nt o				
1. I nt	erior	2. Onion,	3. 35 a	and 5	4. 16%		5.3500,		6. marble	
		Concent r i	c				pr essur e			
				IVF	ill in the E	Blanks			L	
1. Lik	e an	, †	the earthis	made up	of		layers			
2.The	e upper mo	st layer of	the earth's s	urfaceis	called the		~	0	0	
3.The	e cent r al c	ore of eart	h has ver y hi	gh tempe	er at ur e and	n	Oc	hc	ol	
4. Th	e deepest	mine in the	eworldisin_							
5. Ma	ant le exte	ndsuptoth	ne dept h of _		km be	elow th	ne		_	
6.Any	/ nat ur al n	nass of min	eral matter t	hat make	suptheea	arth'so	crust is ca	lled a		
				4			Ore	eated by	y Pinkz	



7. Our earth is constantly undergoing changes \_\_\_\_\_\_ and \_\_\_\_\_

8. \_\_\_\_\_ is the thinnest layer of all the layers.

9. \_\_\_\_\_ and \_\_\_\_\_ rocks changes into \_\_\_\_\_ rocks due to excessive

heat and pressure.

 10. Fossils are remains of dead \_\_\_\_\_\_ and \_\_\_\_\_

1. Onion, sever al	2. Crust	3. Pressure	4. South Africa	5. 2900, cr ust				
concent r ic								
6. Rock	7. I nside,	8. Crust	9. I gneous,	10. Plant s,				
	Outside		Sediment ary,	Animals				
			met amor phic	<b>D</b>				

I Match the following					
Column A	Column B				
1. Cor e	a) Changes int o slat e				
2. Minerals	b) Used for roads and building				
3. Rocks	c) Made of Silicon and alumina				
4.Clay	d) Have definite chemical composition				
5. Sial	e) I nner most layer				
6. Pitthoo	f) Granite				
7. Grinding	g) Seven st ones				
8. Sandst one	h) Met amor phic r ock				
9. State	i) Sedimentary rock				

1. e	2. d	3.b	4.a	5.c	6. a	7. f	8. i	9. h
_					- 5			

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# II Match the following Column A Column B 1. Red fort of India a) Primary rocks b) Red sandst one 2. Taj Mahal of India 3. Remains of dead plants and animals c) Sediments d) White marble 4. I gneous rocks 5. Small fragments of rocks e) Fossils 2) d 3) e 1) b 4) a 5) c III Match the following Α Column B 1. Land a. Lit hospher e 2. Animals, Plants b. At mospher e 3. Mount ain, plat eau and plains c. Abiotic



d) Biotic

- 1. Lava is fiery red molten magma coming out from the interior of the earth.
- 2. Deccan plat eau is made of basalt rocks.
- 3. Gitti is called five stones
- 4. Engineers have dug a hole about 6 km deep to find oil

4. Gases, wat er vapour, dust

1. True	2. True	3. True	4. True
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#### II True or False

- 1. It is not possible to reach to the centre of the earth.
- 2. Rocks can be of definite shape and size
- 3. The central core of the earth has low temperature and pressure
- 4. The radius of the earth is 6371 km
- 5. When the molt en magma cools, it becomes liquid

i) True	ii) False	iii) False	iv) True	v) False

# III True or False

- 1. Landf or ms are found only over continents.
- 2. Trade in which goods are exchanged without the use of money is called barter system.
- 3. Gravitational force of the earth hols the atmosphere around it.
- 4. No lif e can exist in biosphere.
- 5. Abiot ic environment consists of living or ganism

1. False	2. True	3. True	4. False	5. False

Very Short Answer Questions

# 1. What is the crust?

- i) The uppermost layer over the earth's surface is called the crust.
- ii) It is the thinnest of all the layers.
- iii) It is about 35 km on the continent al masses and only 5 km on the ocean floors.

# 2. What are the main constituents of the continental mass?

The main mineral constituents of the continental mass are silica and alumina. It is thus called sial (si-silica and al-alumina).





#### 3. What are the main constituents of the oceanic crust?

The oceanic crust mainly consists of silica and magnesium. It is therefore called sima. (si- silica and ma –magnesium)

#### 4. What is mantle?

Just below the crust is the mantle which extends up to a depth of 2,900 km below the crust.

#### 5. What is core?

The innermost layer of the earth is core with a radius of 3,500 km. It is mainly made of nickel and ir on and is called nife. (ni-nickel and fe – ferrous, i.e. ir on) The central core has very high temperature and pressure.

#### 6. What are rocks ?

# [NCERT]

Any natural mass of mineral matter that makes up the earth's crust is called a rock igneous rocks. They are also called primary rocks.

# 7. Name the three types of rocks.

[NCERT]

- The three types of rocks are
- i) igneous rocks
- ii) sediment ary rocks
- iii) met amor phic rocks

#### 8. What are igneous rocks?

When the molten magma cools down, it becomes solid. Rocks for med over here are called igneous rocks. They are also called primary rocks.

# 9. What are sediments?

Rocks roll down, crack and hit each other and are broken into small fragments. These smaller particles are called sediments.

#### 10. What are metamorphic rocks? Give example.

I gneous and sediment ary rocks can change into met amorphic rocks under great heat and pressure. For example, clay changes into slate and limest one into marble.

# 11. What are minerals ?

The naturally occurring substances which have certain physical properties and definite chemical composition are called minerals .e.g., uranium, gold coal, natural gas.





Short Answer Questions

1. Draw a structure of the interior of the earth.



# 2. Into how many types are igneous rocks divided?

I gneious rocks are of two types:

- i) Extrusive igneous rocks
- ii) Intrusive igneous rocks.

# 3. What are extrusive igneous rocks ? Give an example.

When the molten lava comes on the earth's surface, it rapidly cools down and becomes solid. Rocks formed is such a way on the crust are called extrusive igneous rocks. The example is Basalt rock found in Deccan plateau.

# 4. What are intrusive igneous rocks? Give an example.

Sometime the molten magma cools down deep inside the earth's crust, leading to the formation of solid rocks. These are called intrusive igneous rocks. For example, granite rocks. These are called intrusive igneous rocks. For example, granite rocks which are used to prepare grinding stone for preparing spice powder.

# 5. What are sedimentary rocks? Give an example.

i) Sediments formed due to roll down of rocks are transported and deposited by wind, water, etc.

ii) These loose sediments are compressed and hardened to form layers of rocks.

ii) These types o frocks are called sedimentary rocks. For example, sandstone made from grains of sand.

iii) These rocks may even contain fossils of plants, animals and other microorganisms that lived once on them.



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#### 6. What are the used of rocks?

Rocks are very useful. The hard rocks are used for making roads, houses and buildings.

They are even used for games like pitthoo (Seven stones), hope scotch (Stapu / Kit kit), etc.

# 7. What are the uses of minerals?

Minerals are very important to mankind. Some are used as fuels. Some minerals, such as coal, natural gas and petroleum, iron aluminium, gold uranium etc. are also used in industries. Further they are even used in medicines and in making fertilisers.

# 8. What are fossils?

The remains of the dead plants and animals trapped in the layers of rocks are called fossils.

# Long Answer Questions

1. Give a brief description of three layers of the earth.

#### i) Crust:

a) The upper most layer of the earth's surface is called crust.

b) It is the thinnest of all the layers.

c) It is almost 35 km on the continental masses and 5 km on the ocean floors.

d) The main mineral constituents of the continental masses are silica and aluminium soil.

ii) Mantle :

Just beneath the crust is the mantle which extends up to 2,900 km below the crust.

iii) Core :

a) The inner most layer is the core with a radius of 3,500 km.

b) It is made of nickel and ir on, i.e. nif e.

# 2. What is a rock? Classify igneous rocks.

i) Any natural mass of mineral material that makes up the earth's crust is called a rock. The earth's crust is made of various types of rocks. Rocks can be of different sizes, textures, shapes colours, etc.

ii) Extrusive rocks : When the molten lava comes on the earth's surface, it rapidly cools down and becomes a solid. They thus, form extrusive igneous rocks; for example, basalt.





Intrusive Igneous rocks : Sometimes the molten magma cools down deep inside the earth's crust. Solid rocks so formed are called intrusive igneous rocks.

# 3. What do you understand by 'Rock cycle'?

i) One type of rocks changes into another type under certain conditions in a cyclic manner.

ii) This process of transformation of the rock from one to another is known as rock cycle.

iii) When the molt en magma cools down, it solidifies to become igneous rock.

iv) These igneous rocks break down into small particles that are transported and deposited to form sedimentary rocks.

v) When the igneous and sedimentary rocks are subjected to great heat and pressure, they change into metamorphic rocks.

# 4. Explain the used of rocks in our lives.

The uses of rocks are :

i) Hard rocks are used for making roads, house and buildings.

ii) Rocks are made of different minerals which are important for mankind; for example, coal petroleum and natural gas.

#### 5. Give reasons,

a) We cannot go to the centre of the earth.

b) Sedimentary rocks are formed from sediments,

c) Limestone is changed into marble.

a) We cannot go to the centre of the earth because the central core has very high temperature and pressure.

b) Sedimentary rocks are formed from sediments. Rocks roll down, crack and hit each other and are broken down into small fragments. These smaller parts are called sediments. These sediments are compressed and hardened to form layers of rocks. These types of rocks are sedimentary rocks.

c) Limest one is a sediment ary rock which, due to excessive heat and pressure, changes into marble after thousands of years and forms metamorphic rocks.

