_	•	<b>5</b> 5 11 1			
,	<i>'</i> .	Dunile i		omineralic rock comprising entirely of -	
			(a)	quartz.	
			(b)	feldspar.	
			(c)	olivine.	
8	3.	Igneous	rocks a	re -	
		Ü	(a)	primary rocks.	
			(b)	secondary rocks.	
			(c)	tertiary rocks.	
9		Ouartzi	te is an -		
		•	(a)	igneous rock.	
			(b)	sedimentary rock.	
			(c)	metamorphic rock.	
10	)	Mohoro	vicic dis	scontinuity separates -	
•	,.	1,1011010	(a)	crust and mantle.	
			(b)	crust and core.	
			(c)	core and mantle.	
II.	<b>W/</b> •	ita chart	notes on	any four of the following:-	
11.	441	ne snort	notes on	any jour of the following	$(4 \times 2\frac{1}{2} = 10)$
		(a)	Mohor	ovicic discontinuity	(4 X 272 – 10)
		(b)		ression and Regression	
		(c)	Acquif	<del>-</del>	•
		(d)	Unconf		
		(e)	Ocean		
		(f)	Sial and		T.
		(1)	Siai allo	i Silia.	
III.	In a	bout 500	) words e	laborate upon any two of the following:	
			_		$(5 \times 2 = 10)$
		(a)		l structure of the earth.	
		(b)		lwater exploration, exploitation and man	agement.
		(c)	Coastal	zone management.	
				***	



## M.Sc. DEGREE I SEMESTER EXAMINATION IN ENVIRONMENTAL TECHNOLOGY **APRIL 2001**

## PHYSICAL PROCESS IN THE ENVIRONMENT

me: 3 Hosurs	Maximum Marks : 50
iic. 5 Hopuis	Waxiiiuiii Wars. 50

Time: 3 Hosurs		,		Maximum Marks	: 50
	(ANSWER EA	CH PART IN	A SEPARAT	E ANSWER BOOK	
Time· 1	½ Hours	PAR	<u>T - A</u>	Maximum Marks:	25
1 11110. 1	/2110dis			www.iiuiii www.	- 23
I. Ch	oose the most ap	propriate answ	er.	$(5 \times \frac{1}{2}) = 2$	21/2)
1. Tropical troposphere has a thickness of -					
	(a)	7 Km.	(b)	17 Km.	
	(c)	12 Km.	(d)	50 Km.	
2.	The season in b	between June a	nd Septemb	er is known in India as -	
	(a)	Post monso	oon season.		
	(b)	Pre monsoo	on Season.		
	(c)	North east	monsoon sea	ason.	
	(d)	South east monsoon season.			
3.	The direction of	of southerly wi	nd is express	ed in terms of "degree"	as -
	(a)	180°	(b)	90°	
	(c)	270°	(d)	0°	
4. Percentage volume abundance of carbon dioxid			ioxide in the atmosphere	is -	
	(a)	0.3%	(b)	0.03%	
	(c)	3%	(d)	0.003%	

If a dry air parcel, having a temperature of 15°C, is lifted upwards from the surface of the Earth, its temperature at a height of 1 Km. would be -

(b)

8.5℃

5°C

(a)

(c)

(d) 15℃

10°C

(Turn over)

Maximum Marks: 25

 $(10 \times \frac{1}{2} = 5)$ 

11.	Name the following:-	$(5 \times \frac{1}{2} = 2\frac{1}{3})$			PART - B	
1	. Thunder producing cloud.		ne: 1	1/2 Hours		Ma
2.	. Aerosols of radii less than 0.1 micrometer.		I. Ans	swer all question	s choosing the most appropr	riate one:
3.	. The scientist who put forward the first model of	general circulation.				
			1.	The internal str	ructure of the earth is inferre	d from th
4.	The zone where the two trade winds meet.			(a)	P - waves.	
				(b)	S - waves.	
5.	Anticlockwise winds in the northern hemispher	е.		(c)	P and S waves.	
			2.	Darcy's law rel	ates to the flow of fluids in -	
III.	Write short notes on any four of the following:-	$(4 \times 2\frac{1}{2} = 10)$		(a)	Underground rocks.	
				(b)	Sedimentary rocks.	
1.	Vertical temperature profile of Earth's atmosphe	re.		(c)	Surface rocks.	
2.	Surface winds pattern.		3. Fluvial drainage relates to -		e relates to -	
				(a)	lakes.	
3.	Seasons of India.			(b)	rivers.	
	Contain to force			(c)	lagoons.	
4.	Coriolis force.		4.	Rocks are an a	agragate of	
5.	Air pollutants.		4.	(a)	Minerals and soils.	
٦.	All politicalits.	•		(b)	Minerals.	
6.	Clouds.			(c)	Crystals.	
٠.				(0)	Olymaio.	
			5.	Earthquake int	ensity is measured on the -	
IV.	Answer any two of the following:-	$(2 \times 5 = 10)$		(a)	Moh's scale.	
				(b)	Ritcher scale.	
1	. Explain geostrophic and gradient motions.			(c)	Pascal scale.	
2	. Describe the heat balance of the Earth atmosph	ere system.	6.	Igneous rocks	are -	
	•	-		(a)	pervious.	
3	. Write an essay on general circulation of Earth-a	atmosphere system.		(b)	impervious.	

Contd......3.

1.	The internal structure of the earth is inferred from the study of -			
	(a)	P - waves.	-	
	(b)	S - waves.		
	(c)	P and S waves.		
2.	Darcy's law rel	ates to the flow of fluids in -		
	(a)	Underground rocks.		
	(b)	Sedimentary rocks.		
	(c)	Surface rocks.		
3. Fluvial drainage relates to -				
	(a)	lakes.		
	(b)	rivers.		
	(c)	lagoons.		
4.				
	(a)	Minerals and soils.		
	(b)	Minerals.		
	(c)	Crystals.		
5.	5. Earthquake intensity is measured on the -			
	(a)	Moh's scale.		
	(b)	Ritcher scale.		
	(c)	Pascal scale.		
6.	6. Igneous rocks are -			
	(a)	pervious.		
	(b)	impervious.		
	(c)	porous.		
		· .	Contd4.	