This	questi	on paper con	tains 3 pri	nted pages	s]	•							•
					Rol	l No.							
S. N	o. of Q	uestion Paper	: 7825		•						•		
Unique Paper Code			: 21911	01						F-1			
Name of the Paper			: Earth	System Sc	eience				•				
Name of the Course			: B.Sc.	(Hons.) (G	eology) [DC-1.1	l]						
Semester			: I	•									
Dura	ation : 3	Hours	•							Max	kimur	n Marl	ks:: 75
	. (Write your Ro	oll No. on	the top imn	nediately	on rece	eipt oj	f this	que	stion	paper.	.)	
· •				Attempt ar									
•				i question	s curry co	quai iii	arko.						
1.	Answ	er any ten of	the follo	wing:	٠								
	(i) _	Boundary be	tween Cr	ust and Ma	antle is t	ermed	as		•••••				
	(ii) .	Where does	the effect	of Coriolis	s force b	ecome	maxi	mum	n ?				
	(iii)	What is epic	enter?				•						
	(iv)	What is the	age of ol	dest rock of	on the E	arth?							
	· (v)	What is the	oresent da	ny concentr	ration of	Carbor	n Dio	xide	in t	he atı	nospl	here?	
	(vi)	Any moving	object in	northern he	emispher	e will d	leflec	t in v	whic	h dire	ction	?	

P.T.O.

(vii)) What is the composition of Lakshadweep Island?
(viii	i) Where will you find ozone layer in the atmosphere?
(ix)	Write the name of deepest trench on the earth.
(x)	What is CCD ?
(xi)	What is the age of Cretaceous/Tertiary boundary?
(xii)	Which planet is known as 'The Red Planet'?
Ģiv	e an outline of Big Bang Theory about the origin of the solar system.
Wri	te short notes on any two of the following:
(<i>i</i>)	Isostacy
(ii)	Mantle convection
(iii)	El Nino.
Wha	nt are earthquake waves? What are P and S waves? Describe shadow zone with near
diagi	ram.
Desc	cribe any two of the following with neat diagram:
(a)	Earth's magnetic field
(b)	Ekman spiral
(c)	Soil profile.

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(3) 7825

- 6. Discuss the Heat budget of the earth and its impact on the global climate.
- 7. Discuss the Plate tectonic Theory and with the help of suitable diagrams describe the various types of plate boundaries.
- 8. Describe briefly any three of the following:
 - (a) Pycnocline
 - (b) Upwelling
 - (c) Island Arcs
 - (d) Shadow Zone.