	SET 2016 PAPER – II			1 10	
EARTH, ATMOSPHEI Signature of the Invigilator	RE, OCEAN AND PL Questi	ANET on Bookle	TARY	SCIE	NCES
1.	0	MR Sheet	No		
Subject Code 02	ROLL No.		1 -7		
Time Allowed: 75 Minutes			M	ax. Mar	ks: 100
No. of pages in this Booklet: 8	8	11 (11)	No.	of Quest	ions : 5 (
90 J. 2000	STRUCTIONS FOR CANDIDA	TES		May 1 ac	

- 1. Write your Roll No and the OMR Sheet No in the spaces provided on top of this page.
- 2. Fill in the necessary information in the spaces provided on the OMR response sheet.
- 3. This booklet consists of fifty (50) compulsory questions each carrying 2 marks.
- 4. Examine the question booklet carefully and tally the number of pages/questions in the booklet with the information printed above. Do not accept a damaged or open booklet. Damaged or faulty booklet may be got replaced within the first 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time give
- 5. Each Question has four alternative responses marked (A), (B), (C) and (D) in the OMR sheet. You have completely darken the circle indicating the most appropriate response against each item as in the illustration



- 6. All entries in the common OMR response sheet for Papers I and II are to be recorded in the original copy only.
- 7. Use only Blue/Black Ball point pen.
- 8. Rough Work is to be done on the blank pages provided at the end of this booklet.
- If you write your Name, Roll Number, Phone Number or put any mark on any part of the OMR Sheet, except
 in the spaces allotted for the relevant entries, which may disclose your identity, or use abusive language or
 employ any other unfair means, you will render yourself liable to disqualification.
- 10. You have to return the Original OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are, however, allowed to carry the test booklet and the duplicate copy of OMR Sheet on conclusion of examination.
- 11. Use of any calculator, mobile phone or log table etc. is strictly prohibited.
- 12. There is no negative marking.

02-16

PAPER-II EARTH, ATMOSPHERE, OCEAN AND PLANETARY SCIENCES

1.	Whi	ich component m	akes up most	of the Milky Way	? 6.	Αf	ossil which has restric	eted tir	ne but wide spatial
	(A)	Gas	(B)	Dust		dist	ribution is known as:		
	(C)	Dark matter	(D)	Stars		(A)	Index fossil	(B)	Living fossil
				120/F		(C)	Extinct fossil	(D)	Exotic fossil
2.	Kep	ler's first law of	planetary mo	otion states that:					
	(A)	Planets move in	n elliptical or	bits with the sun a	ıt 7.	Cho	ondrites do not contain o	ne of th	ne following phases:
		one focus of the	e ellipse			(A)	Ni-Al alloy and Olivi	ne	
	(B)			bits with the sun a	it	(B)	Hypersthene and Dic	pside	1. 253ao m. 119
		one focus of the	e ellipse			(C)	Plagioclase		
	(C)	Planets move in circular ellipse	n elliptical or	bits with the sun i	n	(D)	Biotite		
	(D)	Planets move in elliptical ellipse	n circular ort	oits with the sun in	8.	Ord	er of superposition is :		
		ire di dida. Majara di dia			- FLE	(A)	Basic generalization	of Strat	igraphy
3.	One	of the following	is not found	in Paleozoic era :		(B)	Refers to meteorites		
	(A)	Permian	(B)	Jurassic	=117	(C)	Related to radioactivi	ty	
	(C)	Silurian	(D)	Ordovician		(D)	Fundamental generali	zation	of origin of the earth
4.	The I	sotone of this al	ament is use	d to determine the	9.	Petr	ifaction is a process of		
7.5.IT		frecent geologic		a to determine me		(A)	Rock alteration		
	(A)	U		Rb		(B)	Weathering of rocks		
	(C)	C	(D)	Nd		(C)	Fossilization		
						(D)	Transportation of rocl	KS -	and the same
5.	and n			older than Tertiary stocene" is one of			tendency of earth's cr	ust to 1	naintain a state of
		Geochemistry	(B)	Isotope Geology	in a lai		equilibrium is called:	(D)	Total Care I
		Geomorphology		Palaeontology	10 210	(A)	Isomorphy		Isotrophy
	\-/					(C)	Isochore	(D)	Isostasy
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Paper-II

The chemical composition of microcline is: 16. The main factor for formation of black cotton soil in Maharashtra is: (A) Kal si, 08 (B) KAl Si₃0₈ (A) Topography (D) KAl Si₃O₈ (B) Parent material (C) kAl Si, 08 (C) Living organisms Time 2. A mineral with bladed form is: 17. The succession of hill ranges of the Himalayas from (A) Kyanite Olivine South to North is: (C) Calcite (D) Bauxite (A) The Lesser Himalaya-Greater Himalaya-Outer Himalaya-Trans Himalaya The process of supergene enrichment refers to The Greater Himalaya-Trans Himalaya-Lesser formation of: Himalaya-Outer Himalaya (A) Mn deposits (C) The Outer Himalaya-Lesser Himalaya-Greater (B) Fe deposits Himalaya-Trans Himalaya (C) Cu deposits (D) REE deposits (D) The trans Himalaya-Outer Himalaya-Lesser Himalaya-Greater Himalaya 4. Large segments of the earth's crust characterized by concentration of specific mineral deposit are called: The islands located in Arabian sea: (A) Metallogenic provinces (A) Lakshadweep (B) Andaman Geochemical areas (C) Nicobar (D) Great Andaman Metallogenic epochs y (D) Path finder The river which flows towards west in India is: (A) Mahanadi (B) Krishna 5. Platinum group of elements are typically concentrated (C) Cauvery (D) Narmada in: pt (A) Acidic rocks or 20. Himalayan rivers are perennial because: Intermediate rocks (A) There are many tributaries nd Basic rocks est (B) Of rain throughout the year (D) Mafic and ultramafic rocks (C) Snow melts during the summer (D) Shifting of rivers takes place continuously 16

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21	. Th	e average density (g/cr	n³) of t	he earth is:	2	8. T	he inner core is:			
	(A)	5.52	(B)	6.52			A) Liquid	(B)	Solid	
	(C)	7.52	(D)	8.52		(((D)	Gas	
23.	(A) (C) Asy and (A) (C)	nat is the pressure at 10 63 Kb 43 Kb 43 Kb mmetric folds showing synclinal parts are call. Chevron folds Convolute folds major chemical constit SiO ₂ and MgO CaO and Na ₂ O	(B) (D) sharp ared: (B) (D) uents of (B)	53 Kb 33 Kb and angular anticlina Similar folds Recumbent folds	30	(A (C) (A) (B) (C) (D)	tectonic plate included the control of the control	(D) Ides: and core r mantle	Paleochan	nel
25.	uppe	range of 'Mg number r mantle is : 89-92.5	.' [100]		31.		e most abundant el O C	ement in the (B) 1	7	eis:
	(C)	45-49.2	(3) (1)		32.	Cor	iolis effect cause	s the deflect	ion of the	ocean
			ih	emodel of the			ents to:			o o o cum
		ves travel only through Gases		**************************************		(A)	Left in the Northe Southern hemisp		re and right	in the
		Liquids Solids		s 'i segi		(B)	Right in the North Southern hemispl	hern hemisph here	ere and left	in the
((D) (Gases and Liquids		Annia ya -		(C)	South in the Nort the Southern hem	2	here and no	
(A) N	, ,	(B) H	core is called: futton utenberg		(D)	South in the Northeen Southern hem	hern hemispl isphere	nere and so	uth in
СМВ	-3324	7		4					Pap	er-II

33. Ocean currents are measured by:	I
	38. Greenhouse gases on the earth's surface trap:
TBright	(A) Infrared rays (B) Gamma rays
(B) Coastline photographs	(C) X-rays (D) Ultraviolet rays
(C) Hinterland photographs	
(D) Satellites and drift bottles	39. In which layer of the atmosphere does weather change occur?
34. Ocean circulation causing warming and	(A) Stratosphere (B) Troposphere
catastrophic weather conditions once in few years is called:	(C) Thermosphere (D) Mesosphere
(A) Sea level changes (B) Cyclone	
(C) El-Nino (D) Tidal wave	40. The country which emits largest amount of CO ² in the world is:
25 17	(A) United States of America
35. From the coast to the midoceanic ridge the marine	(B) India
provinces are:	(C) China
(A) Slope, rise, shelf, abyssal plain	(D) Russia
(B) Abyssal plain, rise, slope, shelf	
(C) Rise, slope, shelf, abyssal plain	41. Attracting dragonflies to eat adult
(D) Shelf, slope, rise, abyssal plain	41. Attracting dragonflies to eat adult mosquitoes and mosquito larvae is called:
36. The deepest portion of the assess	(A) Entomology
(A) Sel	(B) Breeding insects
(A) Submarine canyon (B) Trench	(C) Breeding dragonflies
(C) Continental shelf (D) Abyssal plain	(D) Biological Pest control
7. Oxygen is added to the atmosphere by:	2. The natural disaster that produces the greatest wind
(A) Weathering of rocks (B) Forest fires	speed:
(C) Photosynthesis (D) Landslides	(A) Tsunami (B) Tornado
	(C) Tidal wave (D) Earthquake
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Paper-II

	- AN
43	Pure water freezes at :

- (A) 100°C
- (B) 0°C

(C) 4°C

(D) -4°C

44. Water in the zone of aeration is called:

- (A) Juvenile water
- (B) Meteoric water
- (C) Mineral water
- (D) Vadose water

45. Hail is a form of:

- (A) Evaporation
- (B) Evapotranspiration
- (C) Precipitation
- (D) Run off

46. Photovoltaic cells are used in:

- (A) Wind energy generation
- (B) Solar energy generation
- (C) Tidal energy production
- (D) Atomic energy production

47. The richness of the biodiversity depends on:

- (A) Density of forest
- (B) Speed of wind
- (C) Climatic conditions and area
- (D) Intensity of rainfall

48. Ecology is:

- (A) Synonymous with environmental science
- (B) Related to evolutionary biology and genetics
- (C) Related to economic conditions of people
- (D) Related to seismic intensity

49. Terrestrial biodiversity tends to be greater near:

- (A) Equator
- (B) Tropic of Cancer
- (C) Tropic of Capricorn
- (D) North Pole

50. The spectral bands used in Satellite remote sensing are:

- (A) Alpha rays
- (B) X-rays
- (C) UV-rays
- (D) Visible light