Duration: 3Hrs.

Part-A (Objective) =20 Part-B (Descriptive)=50

MA DISASTER MANAGEMENT **First Semester** Situating Disaster: Basics of Earth Science (MDM-01)

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

1. Write short notes on :(any five)			2×5=10	
(a) Beaufort scale	(b) Mass wasting	(c) Atoll	(d) Bays	
(e) Coral reef	(f) Soil	(g) Guyots		

2. Answer the following: (any five)

- (a) Write a note on "Cybernetic system" or "Self regulating system" of Biosphere.
- (b) Write a note on radiation and earth's energy budget. Give diagram in support.
- (c) Write about types of fronts with required diagrams.
- (d) Prepare a note on soil texture.
- (e) What is hydrological cycle? Give diagram in support.
- (f) What is the Pacific Ring of Fire? Explain.

(g) Prepare a note on Global warming and its impact on the earth.

Answer the following questions: (any five)

- (a) Discuss the importance of Biodiversity.
- (b) Define Biodiversity. What are the types of diversity?
- (c) Discuss about human interventions with lithosphere.
- (d) Write a note on Eustatic changes.
- (e) Discuss about Fresh water supply and its importance on lithosphere. Give diagram in support.
- (f) Write about the concept of sea-floor spreading. Give evidences in support.
- (g) Critically analyse the Continental Drift theory.

2014/01

5×5=25

3×5=15

Full Marks: 70

REV-00 MDM/05/10

Marks: 50

REV-00 MDM/05/10

MA DISASTER MANAGEMENT First Semester Situating Disaster: Basics of Earth Science (MDM-01)

(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes			Marks – 20
	PART A- O	bjective Type	
. Write the correct answer:			1×20=20
1. The distance between Earth and	the Sun is-		
a) 150,000,000kms	b) 240,000kms	c) 385,000kms	d) None of these
2. The four inner terrestrial planets	are-		
a) Saturn, Jupiter, Uranus	b) Jupiter, Ur		
c) Mercury, Venus, Earth, Mars	d) Jupiter, Sa		
3. The diameter of Earth is –			
a) 13,000kms	b) 385,000kms	c) 150,000,000kms	d) None of these
4. Frost wedging is an important a	gent of –		
a) Biological weathering	b) Mechanica		
c) Chemical weathering	d) Mass was		
5. The Beaufort scale was devised	in –		
a) 1830s by Sir Francis Beaufort	b) 1805 by S	ir Francis Beaufort	
c) 1923 by Sir Francis Beaufort	d) 1946 by Si	r Francis Beaufort	
6. Ozone layer exists-			
a) 15 to 30kms above the earth	b) 6 to 10kms	above the earth	
c) 5 to 30kms above the earth	d) None of th	e above	
7. Parts of dead plants accumulated	l at the soil surface, a	are referred to collectively as	en de la compañía de
a) Humus b) L	c)	Regolith d) Be	d rock

8. Soil functions as a fund	amental interface where	,;;	and biosphere	e meet.	
a) Hydrosphere, atmosp c) Ecosystem, mangrove		o) Core, mantle, litho d) None of these	osphere		
9. Clay is usually a combi	nation of and	of aluminum and ir	con.		
a) oxygen, CO ₂	b) carbon di oxide, H	$_2$ O c) Silica	, oxides	d) None of these	
10. "World ocean" has a s	urface area ofkm	• Mill regram ou is vira			
a) 360 million square m c) 150 million square m		nillion square miles of these		• Frankost, 28 minutes	
11. The of the Moon	and Sun causes the greatest	t movements of all; t	he		
a) Deflection, tide	b) Attraction, tide	c) Deflection, tsun	ami d) Attraction, tsunami)
12. Tsunamis are triggered	d by-				
a) Tides b) Cy	clones c) Sub-mar	ine earthquakes	d) Shrinki	ng of the earth's crust	
13. Which one of the follo	owing characteristics separa	ates GIS from the oth	ner systems-		
a) Map making and gene c) Map designing and la		b) Linking spatial a d) All of these	and non-spati	al data	
14. Alkaline water is simpa) A pH higher than 7		7 c) A pH betw	ween 2 to 7	d) None of these	8
15. Eustatic changes indica) Changes in the sea levc) Changes in the climat	vel b) Chang	es in the landforms es in the atmosphere		a i pripina anti a a	
16. In Modern Beaufort s	cale no. 2 indicates-			ndune interest () ()	
a) Calm	b) Light air	c) Light breeze		d) Gentle breeze	
17. When the sun and mo	on are located at right angle	es to one another wit	h respect to e	arth, the pulling results-	
a) High tide	b) Neap tide	c) Ebb tide		d) Normal tide	
18. The term Biota refersa) The total complex ofc) Only fauna or animal	plant and animal life	b) Only flora or d) None of these			
19. The apparent deflection earth's surface is termsa) Gravity	n of objects such as airplan ed as- b) Coriolis force	e, wind etc. moving c) Centrifugal fo	the earth	bath relative to the d) None of these	
20. The term used to descra) Silt	ibe a roughly equal concen b) Clay	tration of sand, silt as c) Loam	nd clay is –	d) Sand	