Enrollment No:_____

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PARUL UNIVERSITY

FACULTY OF AGRICULTURE B.Tech. Agriculture Engineering Summer 2018 - 19 Examination

Semester: Subject C Subject N	ode: 20	103154 nvironmental Science and Disaster Management	Date: 17/04/2019 Time: 02:00 pm to 04:00 pm Total Marks: 50		
 2. Figures 3. Make su 	tions ar to the ri itable a	e compulsory. ght indicate full marks. ssumptions wherever necessary. ion on new page.			
Q.1					
A)	Fill in	the blanks (Each of 0.5 Mark)	(05)		
	i)	The movement of earthy materials from higher region to lower gravitational pull is called	-		
	ii)	A place inside earth where Earthquake originates is called			
	iii)	Full form of NDMA is			
	iv)	In venerability analysis scale is			
	v)	Nuclear attack is type of disaster.			
	vi)	Volcanic eruption is type of disaster.			
	vii)	Full form of UNESCO is			
	viii)	Full form of DDMA is			
	ix)	The study of interaction of organisms on land is called			
	x)	Fire in forest is the causes of pollution.			
B)	Multiple Choice Questions (Each of 0.5 Mark) (
	i)	Select the correct option:			
		(1) Hazard is(a) Condition (b) a calamity			
		(c) an accident (d) Rescue Operation			
	ii)	The theory of plate tectonics states that rigid plats are driven	by forces within		
	,	the Earth and interact by			
		(a) colliding with each other (b) pulling apart from each	other		
		(c) Sliding past each other (d) All of these.			
	iii)	Landslide move along a surface of rupture that is curved and	concave is		
		(a) Rotational slides(b) Translational slides(c) Rock fall(d) All of these.			
		(c) Rock fail (u) All of these.			
	iv)	The study of interaction of organisms in water is called			
		(a) Aquatic ecology (b) Terrestrial ecology			
		(c) Forest ecology (d) None of these			
	v)	Animal is a			
		(a) Biotic component(b) A biotic component(c) Ecosystem(d) None of these			
	vi)	(c) Ecosystem (d) None of these Tsunamis waves generated by			
	v1)	(a) Underwater landslides (b) Earthquake (c) Volcanic erupt	ion(d) All of above		
	vii)	Landslides occurs due to			
		(a) Gravity (b) heavy rainfall(c) mining (d) all of these.			
	viii)	Which seismic zone is most sever in India?			
		(a) Zone I (b) Zone II (c) Zone IV (d) Zone V			

	ix)	Lowest Layer of atmosphere is called a) Thermosphere b) Stratosphere c) Troposphere d) Mesosphere	
	x)	In earthquaketypes of waves reaches to the seismic station first.	
)	(a) P (b) S (c) W (d) V	
	xi)	The chairperson of SDMA in India is	
		(a) Prime Minister (b) President (c) Chief Minister (d)Home Minister	
	xii)	Of the following, which is not a natural disaster	
		(a) Nuclear explosion (b) Deforestation (c) Forest fire (d) Lightning	
	xiii)	Of the following, which is not a manmade disaster	
		(a) Nuclear explosion (b) Deforestation (c) Terrorist attack (d) Hiroshima	
	xiv)	Nagasaki disaster In which layer of atmosphere the temperature increase as the altitude increase	
	M()	a) Troposphere b) Mesosphere c) Stratosphere d) Exosphere	
	xv)	Environmental Education should be imparted only at	
	,	a) Secondary school stage b) Primary school stage c) College stage d) All	
		stages	
	xvi)	World Environment day is celebrated every year on	
	,	a) 5^{th} June b) 18^{th} July c) 22^{nd} April d) 31^{st} May	
	xvii)	Atmosphere has following major constituents	
		a) Nitrogen, Oxygen and Argon b) Carbon dioxide and Nitrogen	
		c) Ozone, Methane and Nitrogen d) Nitrogen, Ozone and Oxygen	
	xviii)	Lithosphere means	
		a) Plants b) Vegetation c) Outer earth crust/ soil d) Water	
	xix)	Hydrosphere includes	
		a) Animals b) Soil c) Plants d) Water bodies	
	xx)	Area of land, water and air where the life exists is called	
•		a) Biosphere b) Lithosphere c) Atmosphere d)Hydrosphere	
Q.2 A)	Dofine	the following (Any five out of gover questions)	(05)
A)	(1)	e the following (Any five out of seven questions) Define ecology.	(05)
	(1) (2)	Define ecosystem.	
	(3)	Write examples of ecosystem.	
	(4)	Define Environmental Science.	
	(5)	Define disaster.	
	(6)	Define hazard.	
	(7)	Define renewable sources.	
B)	Answe	er the following (Any five out of seven questions)	(05)
	(1)	Define non renewable sources.	
	(2)	Enlist biological resources.	
	(3)	Define epicenter.	
	(4)	Define focus.	
	(5)	Define capacity development.	
	(6)	Name the gas that is responsible for casualties in "Bhopal gas tragedy".	
	(7)	Define Richter scale.	
Q.3		Short notes(Any five out of six questions)	(10)
	(1)	Sketch the cycle of disaster management.	
	(2)	Define marine pollution.	
	(3)	Define population density.	
	(4)	Enlist different types of landslides.	
	(5)	Classified ecology as per different form.	
	(6)	Discuss function of ecosystem.	

Q.4 Long Questions (Any three out of four questions)

- (1) Define early warning system (EWS). Explain early warning system for flood and earthquake.
- (2) Explain water cycle with diagram.
- (3) Explain Ozone layer depletion.
- (4) Explain causes and effects of global warming.