Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– 1st / 2nd EXAMINATION (New Syllabus) – WINTER 2014

Subject code: 2110007 **Date: 30-12-2014**

Subject Name: Environmental Studies

Time: 10:30 am - 01:00 pm **Total Marks: 70**

Instructions:

1. **Question No. 1 is compulsory. Attempt any four out of remaining Six questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1 **Marks**

(a) **07**

1. When is world environment day celebrated
(a)4 june (b) 5 june (c)7 july (d) 5 july

2. Sundar lal bahuguna is known for his association with
(a)Kerala Sastra Sahitya parishad (b) Chipko movement
(c)Samaj Parivartan samudaya (d) dasholi Gram Swarajya mandal

3. Which of the following can be said to be the example of secondary succession
(a)Pond (b) farm (c)desert (d) forest

4. Discharge of organic waste water into river will
(a) Reduce dissolve oxygen (b) Reduce pH
(c) Increase total dissolve solids (d) Toxic to humans

5. Among the given options, which one is not correct for the use of large amount of fertilisers and pesticides ?
(a) They are eco-friendly
(b) They turn the fields barren after some time
(c) They adversely affect the useful component from the soil
(d) They destroy the soil fertility

6. Which is not true?
(a) Lithosphere includes the crust and the uppermost mantle
(b) Lithosphere is underlain by the stratosphere
(c) Lithosphere provides timber
(d) Lithosphere is broken into tectonic plates

7. Noise is:
(a) Loud sound (b) Sound of high frequency
(c) Unwanted sound (d) Constant sound

(b) **07**

1. Van Mahotsav is an annual tree-planting festival in India, celebrated on:
(i) 2nd June (ii) 1st July (iii) 1st December (iv) 15th September

2. Wild life protection act was enacted in
(i)1952 (ii) 1955 (iii) 1972 (iv) 1982

3. Which one is not greenhouse gas?
(i) CO_2 (ii) Ozone (iii) CH_4 (iv) CFC

4. Out of these which is a renewable source of energy
(i)Natural Gas (ii) Wind energy (iii) Nuclear power (iv) petroleum

5. Which of the group of diseases is spread through contaminated food or water
(i)Typhoid cholera & dysentery
(ii)Tetanus Hepatitis & AIDS
(iii)Measles influenza & small pox
(iv)Rabies Malaria & encephalitis

6. Minimata disease is due to
Hg (mercury) (b) Pb (lead) (c) Zn (Zinc) (d) Mg (Magnesium)

7. Percentage of total water found as fresh water is_____
(i) 87.5% (ii) 2.5% (iii) 97.5% (iv) 75%

Q.2	**(a)**	Diagramatically represent & explain the structure & composition of atmosphere.	**03**
	(b)	Why water is a unique natural resource What are the consequences of over utilization and pollution of water.	**04**
	(c)	Analyze the statement that "Approximately 75% of the earth surface is covered by water then to availability of fresh water is the biggest crisis facing the world today.	**07**
Q.3	**(a)**	Define & differentiate Undernourishment & malnourishment.	**03**
	(b)	Why is environmental education provided to engineers.	**04**
	(c)	Write a short note on any two nonconventional sources of energy.	**07**
Q.4	**(a)**	Define pollution, pollutants and population explosion.	**03**
	(b)	Discuss the air pollution caused by oxides of nitrogen and sulphur	**04**
	(c)	Analyse the relationship between population and pollution.	**07**
Q.5	**(a)**	What do you mean by food chain. Explain different types of food chain with example.	**03**
	(b)	Explain pyramid of energy.	**04**
	(c)	Suggest how we can increase the social awareness for judicial use of water, land & greenery in our surrounding.	**07**
Q.6	**(a)**	Define the term exploitation & global warming.	**03**
	(b)	How Ozone is getting depleted from the atmosphere? Explain with chemical reaction.	**04**
	(c)	Comment on the statement "Products are made psychologically obsolete long before they actually wear out"	**07**
Q.7	**(a)**	Explain the aim & objectives of Air (Prevention & control of pollution) Act 1981	**03**
	(b)	What do you understand by environmental ethics & what are its objectives	**04**
	(c)	Discuss the statement "Sustainable development is the need of the hour"	**07**

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