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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech.

SEM: III - THEORY EXAMINATION (2021 - 2022) (ONLINE)

Subject: Environmental Science

Time: 02:00 Hours

Max. Marks: 50

General Instructions:

1. *All questions are compulsory. It comprises of one Sections A.*
- *Section A - Question No- 1 has 25 objective type questions carrying 2 marks each*
- *No sheet should be left blank. Any written material after a Blank sheet will not be evaluated/checked.*

SECTION A

25 x 1 = 50

1. Attempt ALL parts:-

- | | | |
|-------|--|---|
| 1.1.a | Which of the following conceptual components of environment are effectively transported of matter | 1 |
| | (a) Atmospheres | |
| | (b) Lithospheres | |
| | (c) Hydrosphere | |
| | (d) Biospheres | |
| 1.1.b | An ecosystem is a group of biological communities interacting with one another and exchange energy and matter with the abiotic or physical surroundings. (T) | 1 |
| | (a) TRUE | |
| | (b) FALSE | |
| 1.1.c | Which of the following deals with the relationship between the number of primary producers and consumers? | 1 |
| | (a) Ecological Pyramid | |
| | (b) Food Chain | |
| | (c) Food Web | |
| | (d) Habitat | |
| 1.1.d | Which of the following is an organism that survives on dead organic matter? | 1 |
| | (a) Rhizome | |
| | (b) Detritus | |
| | (c) Saprovore | |
| | (d) Omnivore | |
| 1.1.e | Which of the following is the highest trophic level organism in grassland food web? | 1 |
| | (a) Grass | |
| | (b) Grasshopper | |
| | (c) Lizard | |
| | (d) Hawk | |
| 1.2.a | Identify the non-renewable energy resource from the following | 1 |
| | (a) Coal | |
| | (b) Fuel cells | |
| | (c) .Wind power | |
| | (d) Wave power | |

- 1.2.b What is the rank of India in the world countries in the terms of Water availability per person p.a 1
- (a) 129th
 - (b) 130th
 - (c) 131st
 - (d) 133rd
- 1.2.c Stream reforming is currently the least expensive method of producing 1
- (a) Biogas
 - (b) Biogas energy
 - (c) Geothermal energy
 - (d) Hydrogen
- 1.2.d The process that converts solid coal into liquid hydrocarbon fuel is called 1
- (a) Liquefaction
 - (b) Carbonation
 - (c) Catalytic conversion
 - (d) Cracking
- 1.2.e Which of the following is a disadvantage of most of the renewable energy sources 1
- (a) Highly polluting
 - (b) High waste disposal
 - (c) Unreliable supply
 - (d) High running cost
- 1.3.a The community which begins succession in a habitat is designated as 1
- (a) Seral community
 - (b) Biotic community
 - (c) Ecosere
 - (d) Pioneer community
- 1.3.b _____ is one of the most prevalent hotspots of biodiversity in India 1
- (a) Himalayas
 - (b) Western Ghats
 - (c) Ganges
 - (d) None of the above
- 1.3.c Lime is generally added to _____ soil 1
- (a) Salty
 - (b) Dry
 - (c) Alkaline
 - (d) Acidic
- 1.3.d The invasion of a community in succession involves 1
- (a) Ecesis, aggression and competition
 - (b) Migration, aggregation and competition
 - (c) Aggregation, competition and coactions
 - (d) Migration, ecesis and aggregation
- 1.3.e The earliest settlers on barren lands generally are 1
- (a) Diatoms
 - (b) Ferns
 - (c) Mosses
 - (d) Lichens

- 1.4.a The highest heating values of 1
(a) Rubbish
(b) Garbage
(c) Hospital waste
(d) Agricultural waste
- 1.4.b Excess Fluoride in drinking water is likely to cause 1
(a) Blue baby syndrome
(b) Fluorosis
(c) Cancer
(d) Intestinal irritation
- 1.4.c Gas leaked in Bhopal tragedy is 1
(a) MIC
(b) Oxygen
(c) Methane
(d) Sulfur dioxide
- 1.4.d The primary air pollutant responsible for acid rains is 1
(a) Carbon di oxide
(b) CO
(c) Sulfur di oxide
(d) Ozone
- 1.4.e Damage to leaf structure by air pollutants causes 1
(a) Dead area of leaf
(b) reduction in chlorophyll
(c) Drooping of leaf
(d) All of the above
- 1.5.a In which year was the United Nations Commission on Sustainable Development (CSD) 1
started by the UN General Assembly?
(a) 1995
(b) 1994
(c) 1993
(d) 1992
- 1.5.b In which year did the word 'sustainable development' come into existence? 1
(a) 1992
(b) 1978
(c) 1980
(d) 1987
- 1.5.c The Forest (Conservation) Act extends to the whole of India except? 1
(a) Uttar Pradesh
(b) Karnataka
(c) Jammu and Kashmir
(d) M P
- 1.5.d In which of the following sector NGOs are playing an important role? 1
(a) In governing the police force
(b) In framing the policy related to laws
(c) In framing the environmental policy
(d) In deforestation

- 1.5.e When the consumption of natural resources are equal to nature's ability to replenish then sustainability is 1
- (a) Not sustainable
 - (b) Steady state economy
 - (c) Environmentally sustainable
 - (d) none of the above