[12]

No. of printed pages: 3

SARDAR PATEL UNIVERSITY FY BSc (I SEM) (CBCS) EXAMINATION

Thursday, 25th November 2010 11.30 am - 1.30 pm IS01EENV04 : ENVIRONMENTAL SCIENCE

	Total Marks: 70)
(1) A w (2) V	ctions: nswers of all the questions (including multiple choice questions) should be ritten in the provided answer book only. /rite only the correct answer for Q.1. raw neat and clear diagram wherever necessary.	,
Q.1 (1)	Choose the correct answer from the given option. Which of the following is not a green house gas? (a) CFC (Chloro Fluoro Carbon) (b) Water vapour (c) Carbon dioxide (d) Oxygen	
(2)	Crust, mantle and core are parts of (a) Atmosphere (b) Hydrosphere (c) Exosphere (d) Lithosphere	
(3)	Which of the following is not a abiotic component? (a) Wind (b) Temperature (c) Amoeba (d) Water	
(4)	Choose the producer in the ecosystem from the following options. (a) Grasses (b) Rat (c) Hawk (d) Tiger	
(5)	is not a component of pond ecosystem. (a) Phytoplankton (b) Zooplankton (c) Bat (d) Fish	

(6)	Fossil fuel is a type of (a) Renewable resources (b) Non-renewable resources (c) Man-made resources (d) Mineral resources	
(7)	is one of the cause for soil erosion. (a) Deforestation (b) Plantation (c) Crop-rotation (d) Intercropping	
(8)	is not a Renewable resource. (a) Solar energy (b) Wind (c) Water (d) None of the above	
(9)	Lichen an example of compulsory mutualism is an association between (a) algae and fungi (b) algae and roots of higher plants (c) fungi and roots of Pinus and Cycas (d) algae and paramoecium	
(10)	Association between sea-anemone and Hermit crab is an example of : (a) Commensalism (b) Facultative mutualism (c) Endocommensalism (d) Compulsory mutualism	
Q.2 (1) (2) (3) (4) (5) (6)	Answer the following questions (ANY TEN): Give the names of green house gases (any four). Describe lithosphere in brief. Write down the composition of atmosphere. Write down the biotic components of the pond ecosystem. Producers in ecosystem - Describe briefly. What is the function of detrinores (decomposers) in the ecosystem? Give two examples of decomposers.	[20]
(7) (8) (9) (10) (11) (12)	What do you mean by Renewable resources? Write the types of renewable resources (only names). How many types of forest are present in Gujarat? Give the names. Write any two problems associated with dam construction. What is mutualism? Write its types (only names). Define Ectocommensalism with the help of one suitable example. Give an example of parasitism.	

Q.3 (a) (b)	Answer the following : Explain multidisciplinary nature of environmental science. Scope of Environmental Science.	[06] [04]		
OR				
Q.3	Define Bio-geochemical cycle. Explain Nitrogen cycle in detail.	[10]		
Q.4 (a) (b)	Answer the following : Energy flow in ecosystem Food chain in ecosystem OR	[05] [05]		
0.4	Write down the pyramids ecosystem. Explain them with the help of	[10]		
Q.4	diagrams.	[1		
Q.5	Answer the following : Use and over exploitation of surface and ground water.	[07]		
(a) (b)	Use of land resource.	[03]		
363	OR			
Q.5	Write a note on : Classification of Renewable and Non-renewable resources and their types.	[10]		
Q.6	Explain Commensalism, its types and give examples of each type and explain the example with suitable diagram.	[10]		
OR				
Q.6 (a) (b)	Describe: Parasitism in detail with examples and suitable diagram. Predation in detail with examples and suitable diagram.	[05] [05]		