



Towheed Iranian School (International Section) First Term, Final Exams, 2015-2016

Subject:	Environmental Systems and Societies		Date: 13/12/2015	
Name:	G1	rade:	11 IB, Boys	Girls

Exam time: 90 min

Mark		
7		

-	Discuss now different environmental value systems (EVS) influence
	responses to the usage of resources by humans.
	Ecocentric
	<u>Anthropocentric</u>
	<u>Technocentric</u>

Question 1:(6 Marks)

2- Refer to the first case study, answer the following questions.

l.	Melting glaciers are example of	feedback.
II.	Explain your answer.	
III.	Why melting of the glaciers has an impact t change?	to the global warming / climate
•••		
•••		
•••		
IV.	Discus in this statement from the given cas	e study:
	Ecologists are concerned that warm v	waters are disrupting nutrient
	movement and food webs.	
•••		

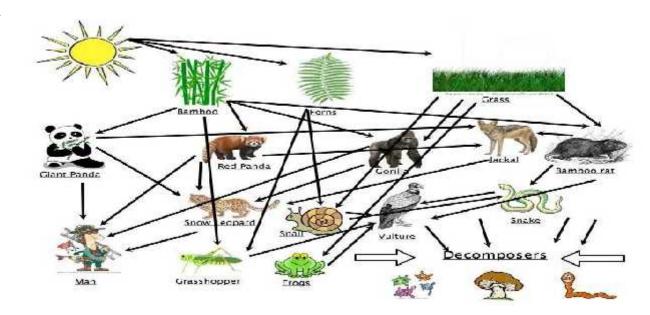
Question 2:(7 marks)

3- Refer to the second case study, Measuring Energy Flows in Cedar Bog Lake, answer only 3 questions. (9 marks) Define a system and give an example of an ecological system. ١. Draw one system diagram for this ecosystem and show its input(s) II. output(s) flow(s) and storage. Define Species, Population, and community and by referring to this case III. study give one example for each. IV. Write one limitation (disadvantage) of model. Give one example of model (refer to the case study) use your own words.

V.	By drawing the productive pyramid explain the following statement. To his surprise, he found that each successive feeding level contained only about 10 percent of the energy captured by the level below it. The remainder is lost as heat or deposited in sediments, he argued, because of the work that organisms perform and the inefficiency of biological energy transformations.
	Hint: you may use reasonable numbers in your pyramid.
	Question 3:(10 points)

Answer the following questions:

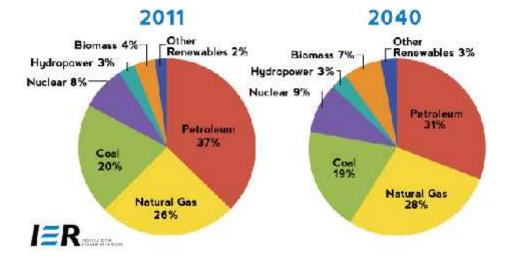
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- I. What is the name of this figure?
- II. Draw two food chains from this figure.

III.	identify one auxotroph, two herbivores, one secondary consumer.
IV.	What is job of decomposer? Explain.

Question 4 (10 marks)



l.	Briefly interpret the given graph.
•••••	
II.	Calculate the percentage of energy usage in years 2011 and 2040.
III.	Write one fact one advantage and one disadvantage of nuclear energy
IV.	Discuss why the usage of other sources of energy will be increased by year
. v .	2040.

Question 5: (9 marks)



Abu Dhabi. In your opinion which source choice is the best and more secure? Explain it. (names of the energy sources, facts, limitations and strengths)

This figure shows the suggested alternative energy sources for Emirate of

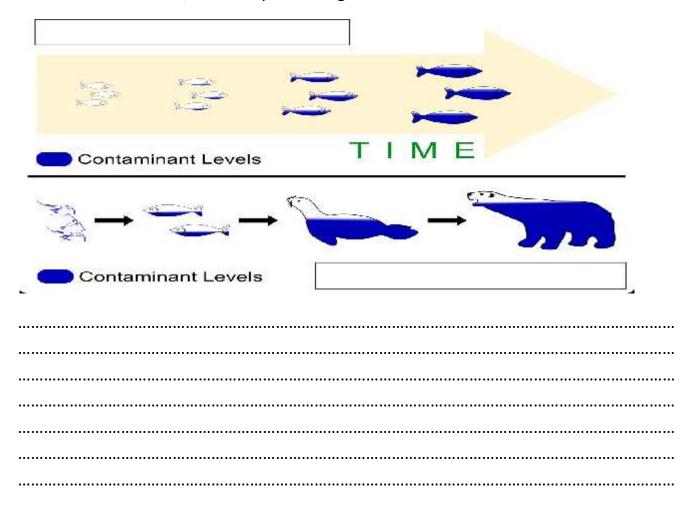
Question 6: (3 marks)

7- Match the following.

А	bove the Tipping point	а	All get benefits
	Closed system	b	One gets harm
Е	IA	С	Energy yes matter no
Р	oint source pollutant	d	unsustainable
n	nutualism	е	Should be done before starting the project
J	curves	f	Factories chimney
Р	arasitism	g	Boom and bust

Question 7: (7 marks)

8- Fill in the boxes; and interpret the figure.



Question 8: (4 points)