



SCIENCE
REVISION SHEET
FINAL EXAM
TERM-II
GRADE 7
Session: 2018-19

Note: The students should first study from their textbook Module (C) and then try to solve this revision sheet independently

Materials included in the FINAL exam:

- Lesson 2: Photosynthesis and cellular respiration: explorations 1+2+3
 - Lesson 3: Matter and energy in ecosystems: explorations 1+2
- Textbook Pages: 25-57**

Student Name:

Q2: How could the following organisms obtain their own energy and matter?

	Producer	Consumer	Decomposer
Matter			
Energy			

Q2: Fill the table to compare and contrast between photosynthesis and cellular respiration:

	Photosynthesis	Cellular respiration
Chemical reaction		
Reactants		
Products		
Organism?		
Where it occurs?		

Q3: Using the photosynthesis chemical reaction written above to count the number of each type of atom in the reactants and products.

Type of atom	Number of atoms in the reactants	Number of atoms in the products
Carbon (C)		
Hydrogen (H)		

Oxygen (O)		
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Q4: Answer the following questions briefly:

1) Using an information from Q3, what can you conclude about the conservation of matter?

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2) What is biofuel?

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3) How are the starting reactants and the products of photosynthesis and cellular respiration related?

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4) What is the difference between food chain and food web?

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5) Explain how “energy pyramid” shows the available energy on each level?

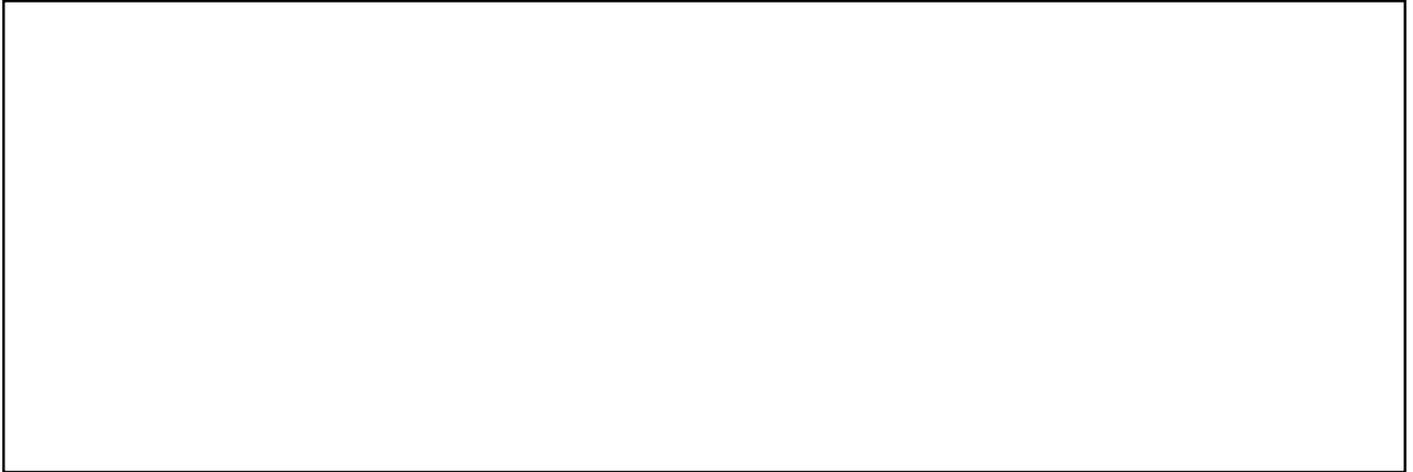
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6) In an energy pyramid, where does the highest energy level located and where does the lowest energy level located?

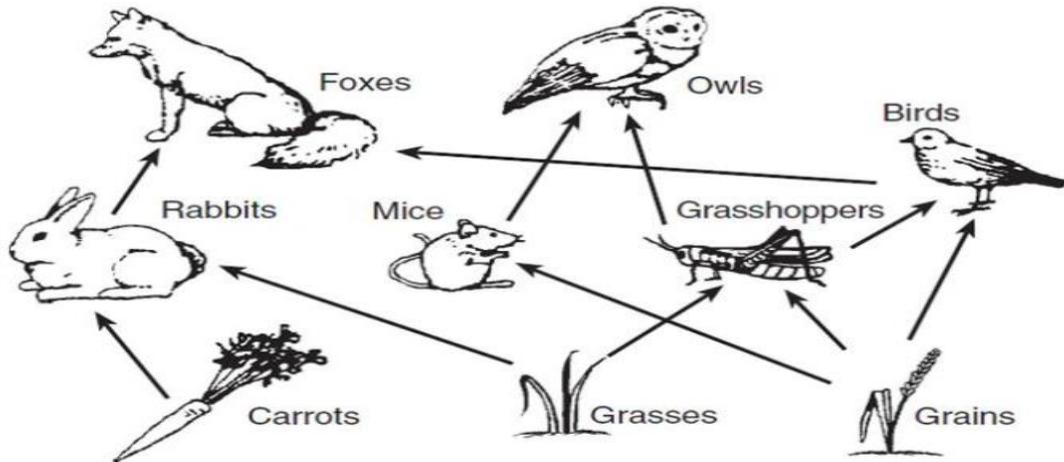
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Q5: Draw with labelling. Choose either water cycle or carbon cycle or nitrogen cycle:



Q6: Use the diagram to answer the questions given below:



1) How do food web shows the flow of energy?

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2) Write a food chain from this food web.

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3) If mice is removed from the food web, what will happen to the population of owls and grains?

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