

Exam:

Grade 7 - General - Inspire - Science - End of Term 1 2022-2023 - A

Activity Type:

Final

Total Marks:

120

answers

1	2	3	4	5	6	7	8	9	10
B	D	D	B	A	B	A	C	D	C

11	12	13	14	15	16	17	18	19	20
C	C	C	D	B	A	A	C	A	C

21	22	23	24	25
B	D	A	A	B

Mark(s): 0/5

Q.1: Community changes from A to B

The two images below show changes in the community, where community A changes and becomes like community B, this is an example of _____



Learning Outcomes Covered

- SCI.3.4.01.020
- SCI.3.4.01.021

Ecological demolition

1. Ecological succession
2. Ecological pollution
3. Ecological extinction
- 4.

Mark(s): 0/5

Q.2: The organization of an ecosystem

Which of the following descriptions about the organization of an ecosystem is **correct**?

Learning Outcomes Covered

- SCI.3.4.01.020

Communities make up species, which make up populations.

1. (Communities < species < populations)

Populations make up species, which make up communities.

2. (Populations < species < communities)

Species make up communities, which make up populations.

(Species < communities < populations)

3.

Species make up populations, which make up communities.

(Species < populations < communities)

4.

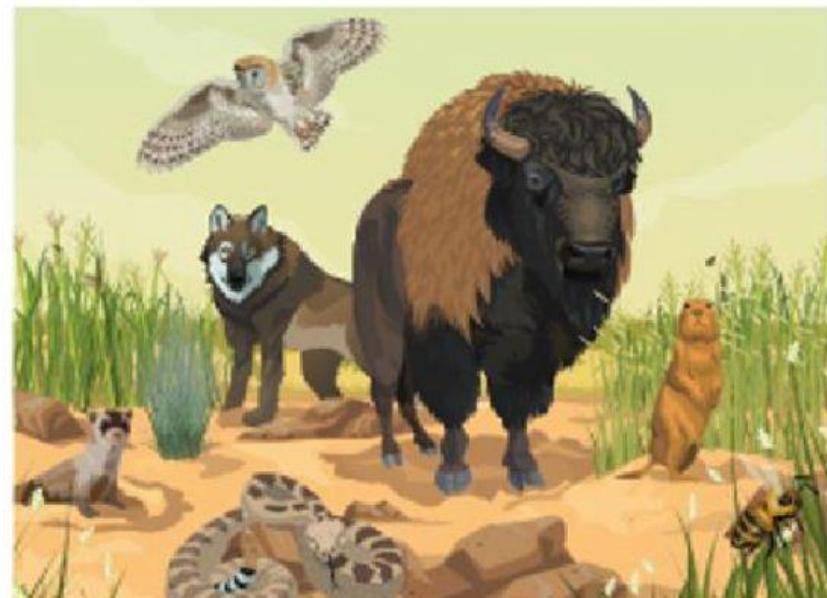
Mark(s): 0/5

Q.3: Land Biomes

Which type of land biomes is making up **one third of Earth's land mass** and receives **very little rain**, where animals and plants have to adapt the **hot and dry** environment?

Learning Outcomes Covered

- SCI.3.4.01.021



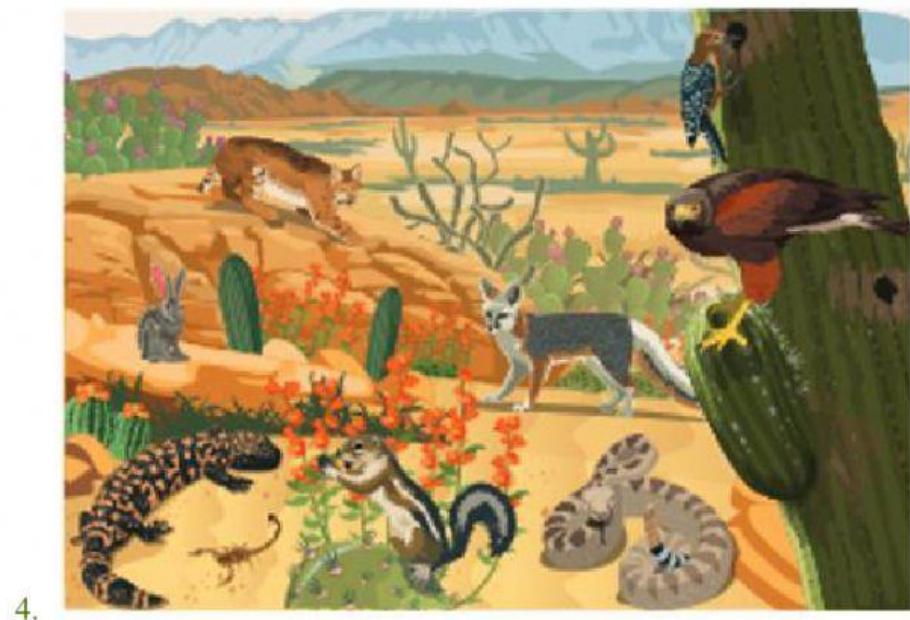
1.



2.



3.



4.

Mark(s): 5/5

Q.4: Negative Impacts of Sedimentation

Which of the following is **NOT** from the negative impacts of sedimentation?

Learning Outcomes Covered

- SCI.3.4.01.020

Coastline alteration

1. Increase visibility for animals to find food in water
2. Cover habitats of fish or other animals
- 3.

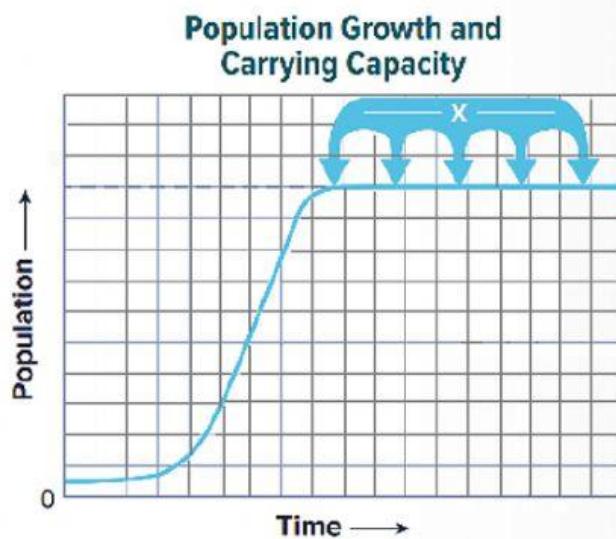
Clog waterways and flooding

4.

Mark(s): 0/5

Q.5: Graph: Population Growth and Carrying Capacity

Which of the following is the labeled part by X in the graph below?



Learning Outcomes Covered

- SCI.3.1.03.018
- SCI.3.4.01.020

Limiting factors

1. **Biotic potential**
2. **Extinction**
- 3.

Overpopulation

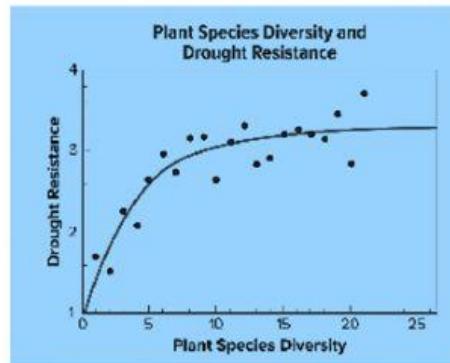
4.

Mark(s): 0/4

Q.6: ***** BONUS ***** Graph: Plant Species Diversity and Drought Resistance

The graph below shows the relationship between plant species diversity and the ecosystem's resilience to the drought. Values closer to one on the vertical axis imply less resilience to the drought.

What conclusion can be made by analyzing the data from the graph?



Learning Outcomes Covered

- SCI.3.4.01.021

As plant biodiversity increases, resistance to drought decreases

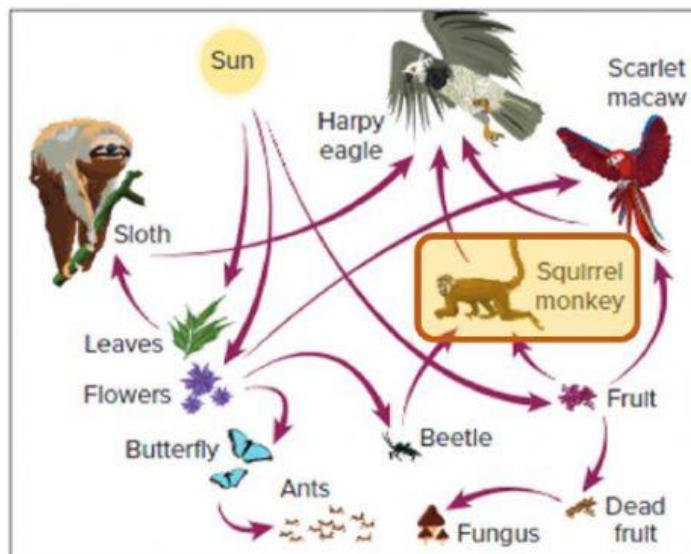
- As plant biodiversity increases, resistance to drought increases
- Ecosystems with lower biodiversity are better able to respond to changes
- Ecosystems with higher biodiversity are less able to respond to changes

Mark(s): 0/5

Q.7: Squirrel monkey type of consumers

Study the following food web.

Which type of consumers does the squirrel monkey belong to?



Learning Outcomes Covered

- o SCI.3.1.02.009
- o SCI.3.2.01.010
- o SCI.3.4.01.021

Omnivores

1.

Herbivores

2.

Decomposers

3.

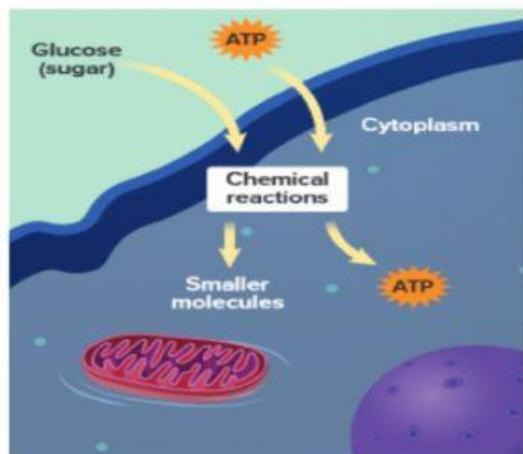
Carnivores

4.

Mark(s): 0/5

Q.8: Cellular Respiration in Eukaryotic Cells

Which of the following is **correct** regarding the cellular respiration in eukaryotic cells?



Learning Outcomes Covered

- o SCI.3.2.01.014

1. The first step of cellular respiration occurs in the mitochondria
2. The second step of cellular respiration occurs in the cytoplasm
3. The process in which glucose is broken down into smaller molecules is called Glycolysis
4. The waste products from cellular respiration are oxygen, water, and ATP

Mark(s): 4/4

Q.9: *** BONUS ***** Different Types of Ecological Succession**