

#### QUESTION 1

1. National Park Authority: This is the governing body responsible for the management and conservation of the park.
2. Wildlife Conservation Society: This is an international organization that works to conserve wildlife and their habitats. They provide support to national parks and their management.
3. International Union for Conservation of Nature (IUCN): This is a global organization that provides technical expertise and guidance on the conservation and management of wildlife, including lions.
4. Local Communities: The people who live around the national park can play a critical role in the management of lions. They can act as stewards of the land, report incidents of lion activity, and assist with conservation efforts.
5. Researchers: Scientists and researchers can provide valuable insights into the ecology and behavior of lions, which can inform management decisions.
6. Wildlife veterinarians: These professionals can help with the monitoring, disease control, and medical interventions for the lion population.
7. Government Agencies: National and local government agencies can provide regulatory support, funding, and assistance in the management of lions in the national park.

#### QUESTION 2

here are the attributes, constraints, and relationships of the entities involved in the management of lions in a national park:

1. National Park Authority: Attributes:

- Name
- Address
- Contact Information
- Budget
- Staff
- Policies and regulations

Constraints:

- Compliance with local and national laws and regulations
- Budget limitations

Relationships:

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- Collaborates with other entities for the management of lions in the national park
- Provides funding and oversight for lion conservation efforts

2. Wildlife Conservation Society: Attributes:

- Name
- Address
- Contact Information
- Budget
- Staff
- Expertise in wildlife conservation and management

Constraints:

- Funding limitations
- Compliance with local and national laws and regulations

Relationships:

- Collaborates with national park authorities, local communities, researchers, and government agencies for lion conservation efforts
- Provides technical support and expertise for lion conservation

3. International Union for Conservation of Nature (IUCN): Attributes:

- Name
- Address
- Contact Information
- Budget
- Staff
- Expertise in wildlife conservation and management
- Classification of lion conservation status

Constraints:

- Compliance with local and national laws and regulations
- Funding limitations

Relationships:

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- Provides technical expertise and guidance for lion conservation efforts
- Collaborates with national park authorities, local communities, researchers, and government agencies

4. Local Communities: Attributes:

- Population size
- Location
- Traditional knowledge of lions and their habitat
- Willingness to participate in lion conservation efforts

Constraints:

- Limited resources
- Cultural practices that may conflict with lion conservation efforts

Relationships:

- Collaborates with national park authorities, researchers, and conservation organizations to manage lion-human conflicts
- Provides support for lion conservation efforts

5. Researchers: Attributes:

- Name
- Affiliation
- Contact Information
- Expertise in lion ecology, behavior, and genetics
- Data on lion populations and their habitat

Constraints:

- Limited resources
- Compliance with ethical guidelines for research

Relationships:

- Provides technical expertise and data for lion conservation efforts
- Collaborates with national park authorities, local communities, and conservation organizations

6. Wildlife Veterinarians: Attributes:

- Name

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- Affiliation
- Contact Information
- Expertise in wildlife health and medicine
- Diagnostic and treatment equipment

Constraints:

- Limited resources
- Compliance with ethical guidelines for animal care

Relationships:

- Provides medical support and disease control measures for lion populations
- Collaborates with national park authorities, researchers, and conservation organizations

7. Government Agencies: Attributes:

- Name
- Contact Information
- Budget
- Staff
- Legal authority

Constraints:

- Compliance with local and national laws and regulations
- Budget limitations

Relationships:

- Provides regulatory support, funding, and assistance for lion conservation efforts
- Collaborates with national park authorities, researchers, and conservation organizations