

# Wildlife Campus AND NEARN PROTECT SAVE

## Mammal Questions

Module # 1 – Component # 7

Which species has a more varied diet (Aardvark or Pangolin)?    (1)
Question 2
For how many years have mammals been the dominant animal life forms.
a)       6 500         b)       65 000         c)       650 000         d)       6 500 000         e)       65 000 000
Question 3
State the physiological adaptation and related behaviourism that enabled early mammals to avoid competition with dinosaurs? (2)
Question 4
Which two <b>characteristics of mammals</b> are assumed to have ensured their <b>supremacy</b> over reptiles? (2)
Question 5
With reference to <b>mammary glands</b> name the <b>three</b> recognised groups of mammals. (3)
Question 6
Which <b>anatomical</b> characteristic is <b>unique</b> to all mammals? (1)
Question 7
With reference to <b>feet and foot posture</b> , what would be the <b>correct term</b> for a foot that bears <b>five digits</b> , in addition, <b>provide an example of an animal</b> that has such a foot? (2)
Question 8
Name the <b>5 characteristics</b> that contribute to the <b>Insectivora Order</b> being referred to as the <b>most primitive</b> of living placental mammals. (5)
Question 9
Which <b>species</b> of the Order Lagomorpha is <b>highly endangered</b> ? (1)
Question 10
Bats can be divided in to 3 groups according to their diet: Name them. (3)
Mammal Questions

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Question 11
(True / False) Man belongs to the Order Primates. (1)
Question 12
With reference to teeth, The ceropithecines have the sameas man and possess powerful jaws. (2)
Question 13
Differentiate <b>aquatic</b> mammals from <b>marine</b> mammals? (3)
Question 14
Which of the following characteristics are found only in mammals?
<ul> <li>endothermy</li> <li>body hair</li> <li>quadrupedal</li> <li>air breathing</li> <li>lactation</li> <li>backbones</li> <li>external pinnae</li> <li>monogamy</li> </ul>
<ul><li>sweat glands</li><li>viviparity (5)</li></ul>
Question 15
From the above <b>Question # 14</b> , which of the characteristics are <b>found in all mammals</b> ? <b>(5)</b>
Question 16
(True / False). All mammals bear live young. (1)
Question 17
Where and at what time of the day would you have found the early mammals? (2)
Question 18
Briefly describe endothermy in mammals. (5)
Question 19
Which unique feature links the monotremes, marsupials and placental mammals? (1)

**Mammal Questions** 

List the three different types of mammalian foot posture and provide a common name example of an animal that uses each type. (6)

#### Question 21

Placental mammals are characterised by the possession of a placenta. Briefly describe its functions. (5)

Question 22

Briefly explain the difference between the digestive system in hindgut fermenters and ruminants. (6)

Question 23

List any three characteristics of primitive placental mammals.

#### Question 24

List 10 mammalian characteristics, the first five must be unique to class Mammalia. (10)

#### Question 25

Name the most primitive mammal group, provide one example and briefly describe how it feeds its young. (4)

#### Question 26

Redraw and complete the table to match the species with its preferred habitat and unique characteristic.

Species	Preferred habitat	Unique characteristic
Hippopotamus	Ş	Ś
Aardvark	Ş	Ś
Pangolin	Ş	Ś
Klipspringer	Ş	Ś
Porcupine	Ś	Ś

- Rocky areas
- Quills
- Dry woodland /savannah
- Aquatic
- No incisor /canine teeth
- Preorbital glands
- Scale covering
- Open woodland
- No sebaceous glands
- Very wide habitat

(10)

#### **Mammal Questions**

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(3)

Mammals evolved from a sub-class known as the Synapsida. Provide the common name for this sub-class. (1)

#### Question 28

Match up the following columns

Order Insectivora Order Chiroptera Order Pholidota Order Lagomorpha Order Rodentia Order Carnivora Order Tubulidentata Order Proboscidae	<ul> <li>Bats</li> <li>Riverine Rabbit</li> <li>Aardvark</li> <li>Family Felidae</li> <li>Loxodonta africana</li> <li>Ruminants</li> <li>Subsists on a diet of beetles</li> <li>Mountain Zebra</li> </ul>	
Order Perissodactyla	- Porcupine	
Order Artiodactyla	- Myremecophagic	(10)

#### Question 29

List three advantages of lactation.

Question 30

Provide one plausible explanation as to why the Dinosaurs became extinct. (5)

#### Question 31

How would the early mammals have avoided competition with the dinosaurs? (2)

#### Question 32

Following on from the **above question**, which **mammalian characteristic** enables them to do this? (2)

Question 33

(True / False). Mammals are the only class of vertebrates that possess external pinnae.

(1)

#### Question 34

(True/False). Besides birds, bats are the only animals capable of sustained flight. (1)

Question 35

Name five characteristics that are exclusively mammalian.

(5)

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Name six aquatic mammals (provide their common names, not group names). (6)

#### Question 37

Why do some mammals hibernate?

Question 38

Match the following animals with their described foot posture.

#### Question 39

Name two functions of sweat glands.

Question 40

(True / False). Certain marsupial species are endemic to Africa.	(1)
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#### Question 41

Define a **monotreme** and provide a common name **example** to substantiate your answer. (3)

Question 42	
Differentiate polygynous from polyandrous.	(4)
Question 43	
Explain why <b>endothermy</b> enabled the early mammals to <b>avoid competing dinosaurs.</b>	with <b>(3)</b>
Question 44	

Giraffe are classified as plantigrade / unguligrade / digitigrade?

Question 45

Divide members from the Order Chiroptera into three groups based on diet. (3)

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6

(2)

(3)

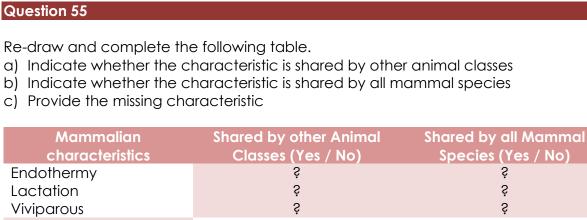
(4)

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Question 46	
(True / False). Rabbits and hares are rodents.	(1)
Question 47	
Other than baboon and monkeys, <b>name two primate groups</b> endemic to Southern Africa.	(2)
Question 48	
The aardwolf subsists on a diet mainly comprised of harvester termites. Give specific name for <b>this type of diet</b> ?	e the (1)
Question 49	
Name the term that describes daily hibernation in mammals.	(1)
Question 50	
What is echo - location? Which group of animals uses it?	(3)
Question 51	
Mammals evolved approximately:	
<ul> <li>a) 650 million years ago</li> <li>b) 300 million years ago</li> <li>c) 130 million years ago</li> <li>d) 65 million years ago</li> <li>e) 65 thousand years ago</li> </ul>	(1)
Question 52	
What <b>type of digestion</b> is employed by: a) Zebra b) Giraffe	(2)
Question 53	
Match up the following terms describing foot posture with the correct animals.	

- a) Plantigrade
- b) Digitigrade
- c) Unguligrade

The Black footed cat, Samango monkey, Siberian tiger, Gemsbok, Puku, Mountain gorilla. ( $\frac{1}{2} \times 6 = 3$ )

**Mammal Questions** 



Lactation	Ç	ç
Viviparous	Ś	Ś
Ś	Yes	Yes
Body hair	Ś	Ś
Sweat glands	No	Ś
Mammary glands / tissue	Ş	Ş
External pinnae	Ş	Ş
		(14)

Which three periods make up the Mesozoic Era?

- a) Cretaceous, Triassic, Jurassic
- b) Triassic, Carboniferous, Permian
- c) Jurassic, Cambrian, Cretaceous
- d) Devonian, Silurian, Triassic
- e) Carboniferous, Cretaceous, Cambrian

#### Question 57

**Re-draw** the following table, comparing the differences between mammals and birds.

Characteristics	Bird	Mammal
Dentition	Ś	Ś
Covering	Ś	Ś
Thermoregulation	Ś	Ś
Reproduction	Ś	Ś
		(8)

#### Question 58

**Mammal Questions** 

Differentiate homeothermy from endothermy

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Which species carries its young on its back (Aardvark or Pangolin)?

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(1)

(2)

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Question 59	
Name three marsupials.	(3)
Question 60	
Using examples, differentiate between <b>polygamous</b> and <b>polyandrous</b> mammals.	(4)
Question 61	
List the common names of the three Families comprising the Order Insectivora.	(3)
Question 62	
(True / False). There is no difference between rabbits and hares.	(1)
Question 63	
What is the <b>function</b> of <b>coprophagy</b> ? Name and animal that performs this action.	(3)
Question 64	
(True / False). Bats are the only mammals which use echolocation.	(1)
Question 65	
Name the four groups of Primates common to Southern Africa.	(4)
Question 66	

**Redraw** and **complete** the following table.

Ś	Describes the dog family
Family Lorisidae	Ś
Ş	Spotted and brown varieties
Family Soricidae	Ś
Ş	Mongoose, genets, civets
Family Leporidae	Ś
Ş	Panthera leo
Family Cercopithecidae	Ś
Ş	Badges, otters, polecat
Family Macroscelididae	Ś
	(10)

#### Question 67

Differentiate between hares and rabbits.

(4)

**Mammal Questions** 

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Which terms describe foot posture in mammals while standing? Provide a common name example of a mammal that uses each term.  $(6x \frac{1}{2} = 3)$ 

Question 69	
Which Order and family of mammals possess carnassial teeth?	(2)
Question 70	
Large ungulates employ 2 distinct types of digestion. Name each type.	(2)

#### Question 71

Question 72

**Re-draw** the following table showing **exclusively mammalian characteristics** and indicate which characteristics are **common to all** mammal species.

Exclusively mammalian characteristics	Common to all mammal (yes/no)

(10)

Name two <b>monotremes</b> .	(2)	)
Question 73		
What is a <b>colostrum</b> ?	(2	2)
Question 74		
Name a <b>polyandrous</b> mammalian species	(1	I)
Question 75		
List 10 groups that are classified as rodents	(10	))
Question 76		
Into which <b>Order</b> do <b>bats</b> fall?	(1)	
Question 77		
Which group of mammals exhibits a <b>tooth-comb</b> for grooming?	(1)	)
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Mammals evolved approximately

- a) 650 million years ago
- b) 300 million years ago
- c) 130 million years ago
- d) 65 million years ago
- e) 65 thousand years ago.

#### Question 79

For each of the following **mammalian Orders**, provide a common name example and state whether the animal is a **primary**, **secondary** or **tertiary** consumer.

- a)Order Insectivora
- b) Order Primates
- c) Order Pholidota
- d) Order Lagomorpha
- e) Order Rodentia
- f) Order Carnivora
- g) Order Proboscidea
- h) Order Artiodactyla

#### Which of the Small Mammal Orders is most successful?

#### a) Order Insectivora

- b) Order Macroscelidae
- c) Order Lagomorpha
- d) Order Rodentia
- e) Order Hyracoidea

#### Question 81

Question 80

Divide the Chiroptera into three groups based on their dietary preferences. (3)

#### Question 82

Which of South Africa's endemic primates is most strongly defined with a social grouping known as an oligarchy? (chacma baboon / vervet monkey / Bushbaby).

(1)

#### Question 83

Which of South Africa's endemic primates exhibits the largest number of communication calls, gestures and displays? (chacma baboon / vervet monkey / Bushbaby). (1)

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(1)

(16)

Which of South Africa's endemic primates is nocturnal? (chacma baboon / vervet monkey / Bushbaby). (1)

#### Question 85

What is thought to be the **reason for the extinction** of the **dinosaurs**? (3)

#### Question 86

Name four mammalian characteristics that are also shared by other vertebrate classes. (4)

#### Question 87

In terms of **reproductive strategies**, what **two groups** are found **other than marsupials** (2)

#### Question 88

List the three different types of foot posture found in terrestrial mammals. Explain what each type looks like and provide a common name example of an animal that exhibits each type. (9)

#### Question 89

List three common name examples of mammals that are classified in the Order Insectivora. (3)

Question 90		

Critically analyse the statement "blind <b>as a bat</b> "	(4)
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Question 91

Into which Order does the species Homo sapiens belong?

Question 92

Name the Order and common name of the group of terrestrial mammals that uses echolocation. (2)

#### Question 93

**Endothermy**, although common to other vertebrates, is perhaps the single factor that has **allowed mammals to become the dominant animal** type in most ecosystems. What is endothermy? And **why** has it afforded mammals a **great advantage**?

(4)

(1)

12

**Differentiate** between **Primary**, **Secondary** and **Tertiary** consumers. Provide one **common name example** of a mammal from each group. (2x3 = 6)

Question 95	
(True / False). Elephants drink through their trunks.	(1)
Question 96	
List the <b>common names</b> of <b>12</b> Southern African antelope? Include <b>4 large</b> , <b>4 medium</b> and <b>4 small</b> sized species.	(12x ½= 6)
Question 97	
Define the term ' <b>ungulate'</b> .	(2)
Question 98	
Ungulates exhibit two very different and <b>distinct forms of digestion</b> . No and provide an <b>example</b> of an animal that uses each form.	ame both forms (4)
Ungulates exhibit two very different and <b>distinct forms of digestion</b> . No	
Ungulates exhibit two very different and <b>distinct forms of digestion</b> . No and provide an <b>example</b> of an animal that uses each form.	
Ungulates exhibit two very different and <b>distinct forms of digestion</b> . No and provide an <b>example</b> of an animal that uses each form. Question 99	(4)
Ungulates exhibit two very different and <b>distinct forms of digestion</b> . No and provide an <b>example</b> of an animal that uses each form. Question 99 Which <b>two species of zebra</b> are found in Southern Africa?	(4)

Certain herbivores such as the **impala**, **kudu** and **elephant** are both **grazing and browsing animals**. Provide an **alternative term** to describe their dietary habits. (1)

Question 102	
What is the most common antelope in South Africa's National Parks?	(1)
Question 103	
What is the African Elephant's specific name. (write it using the correct format)	scientific <b>(2)</b>
Question 104	

List three characteristics that advertise that a bull elephant is in musth. (3)

Re-draw and complete the following table to differentiate the Diceros bicornis from the Ceratotherium simum

Characteristic Square-lipped Browser Calf follows mother Larger of the Rhinocerotidae family Males defend territories	Black or White (rhinoceros) ृ ृ ृ ृ ृ
Males defend femiones	(5)
Question 106	
Into which two groups are all buffalo in S	South Africa divided? (2)
Question 107	
How much water can an adult elephant	drink daily? (2)
Question 108	
Provide the <b>scientific name</b> for odd and	even toed <b>ungulates</b> . (2)
Question 109	

List the **two distinct feeding types** recognised amongst the mammalian **herbivores**, provide a **common name example** of each. (4)

#### Question 110

(True /False) The Blue Antelope was the first African mammal recorded to become extinct. (1)

Question 111

Name the **two Orders of hoofed mammals** and provide a **common name example** of each. (4)

#### Question 112

Comparing ruminants with hindgut fermenters, name an example of each and state which animal has the more efficient method of digestion? (3)

Question 113

(True / False). Grazing in buffalo is aided by the fact that they possess a prehensile tongue. (1)

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Question 114	
Buffalo are ruminants / hind-gut fermenters?	(1)
Question 115	
What reputation have African buffalo earned from a hunting perspective?	(1)
Question 116	
Indicate whether the following species are grazers, browsers or mixed feeders.	
<ul> <li>a) Blue wildebeest</li> <li>b) Steenbok</li> <li>c) Kudu</li> <li>d) Waterbuck</li> <li>e) Springbok</li> <li>f) Sable antelope</li> <li>g) Impala</li> <li>h) Grey rhebok</li> </ul>	(8)
Question 117	
What is the collective noun for the warthog social group?	(1)
Question 118	
On what basis are warthog sexually dimorphic?	(1)
Question 119	
Briefly describe how you would separate male giraffe from female giraffe viewed close and at a distance? (assume their genitalia are not in view in both c	
Question 120	
Which zebra species is recently extinct?	(1)
Question 121	

(1)

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Describe one theory to explain the coat pattern of Burchell's zebra. (3)

Question 122

Name the South African National Park that is dedicated to a specific zebra species. (1)

Question 123

(True / False). Hippos cannot float in water.

**Mammal Questions** 

The hippopotamus is a herbivore.	
<ul> <li>Where do hippos feed?</li> <li>When do they feed?</li> <li>What do they feed on?</li> </ul>	(3)
Question 125	
List one instance of unusual hippo behaviour	(1)
Question 126	
Name two equally important functions of the elephant's ears.	(3
Question 127	
Describe the <b>physiology of rumination</b> in the Tragelaphus strepsiceros.	(5
Question 128	
How many toes would a Perrisodactyl mammal have?	(2
Question 129	
List three ways to distinguish black from white rhino	(6
Question 130	
List four of the six types of common horn seen in among bovids.	(4)
Question 131	
What is the most common mammal in South Africa?	(1)
Question 132	
For which <b>two purposes</b> is rhino <b>horn</b> sought for?	(4)
Question 133	
Explain <b>sexual dimorphism</b> in <b>warthogs</b>	(3)

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Name two Southern African species that have become extinct in the last 150 years.

	(2)
Question 136	
Name four spiral horned antelope. (4x)	/2 = 2)
Question 137	
Name two currently endangered Southern African mammals.	(2)
Question 138	
(True / False). Most Buffalo in South Africa are disease free.	(1)
Question 139	
List the common names of five species in the Order Canidae.	(5)
Question 140	
Name two morphological and one ethological difference between male and fe lions.	emale (3)
Question 141	
Explain the correlation between <b>cooperative hunting</b> and <b>hunting success</b> . (exact percentages are not required).	(2)
Question 142	
Explain why leopards do not need to make kills as often as most other predators.	(3)
Question 143	

(True / False). Leopards never eat carrion.

Question 144

Which behaviourism is not observed in leopards when they are the dominant predator in an area? (1)

Question 145

List three physical adaptations that allow cheetah to run at speeds of up to 112km/h. (3)

Why do cheetah need to make more kills than other predators of similar size? (1)

Question 147

(True / False). Single cheetah have been recorded as having been successful in hunting giraffe. (1)

#### Question 148

(True / False). Single leopard have been recorded as having been successful in hunting giraffe. (1)

Question 149

The spotted hyaena exhibits a remarkable social system

- a) What is the name of this system?
- b) Who is the head of this social system?
- c) How is dominance within this system gained?

#### Question 150

Under which circumstances can a spotted hyaena be expected to give a high cackling laugh? (1)

#### Question 151

Name three South African hyaenid species.

#### Question 152

Why is it relatively simple to calculate overall population numbers using photographs of wild dogs? (1)

#### Question 153

Explain why wild dogs can kill African buffalo, an animal that is 30 times larger than it is? (2)

#### Question 154

How are wild dogs that have not participated in a kill able to eat of it? (2)

#### Question 155

Suricate societies are characterised by a division of labour. One of the tasks is that of sentinel. Describe how this animal performs its duties. (5)

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(3)

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Question 156	
Provide the <b>colloquial name</b> for the <b>suricate</b> ?	(1)
Question 157	
What is a <b>Baculum</b> ? Where would you <b>find it</b> ? What is its <b>function</b> ?	(4)
Question 158	
What is the <b>function</b> of <b>carnassial teeth</b> ?	(2)
Question 159	
Why is the cheetah the 'odd one out' with reference to the other felids?	(2)
Question 160	
Name the <b>five families</b> in the <b>Order Carnivora</b> and provide a common name <b>exc</b> of an animal from each family.	imple (10)

Excluding the lion, leopard, cheetah and spotted hyaena, list the common name of 10 carnivorous mammals. (10 x <sup>1</sup>/<sub>2</sub> = 5)

#### Question 162

Explain echolocation as it pertains to bats.

(3)