

NAME: BELLO AISHA

MATRIC NO: 17/MHS07/005

DEPARTMENT: ANATOMY

COURSE CODE: ANA 314

- 1) What is comparative anatomy
- 2) Highlight the criteria necessary to caring for laboratory animals.
- 3) Highlight the similarities and differences in the digestive systems anatomy of amphibians.

1) Comparative anatomy is the study of similarities and differences in the anatomy of different species. It has provided evidence of common descent, and has assisted in the classification of species.

- 2) -Room temperature
 -Humidity
 -Ventilation
 -Illumination and light schedule
 -Noise moderation

3) Similarities

	Mammals	Amphibians
Mouth	Present	Present
Teeth	Present	Present
Small Intestine	Present	Present
Large Intestine	Present	Present
Gall bladder	Present	Present
Oesophagus	Present	Present

Differences

Mammals (Man)	Amphibians (Frogs)
The tongue is not very sticky	The tongue is very sticky
The top of the tongue is straight	The top of the is folded backwards
Chewing is a mechanical digestion in humans	They swallow their prey without chewing
Absorption of nutrients occurs in the jejunum	Absorption of nutrients occurs in the Ileum
Excretion is through the cloaca	Excretion is through the rectum
Small Intestine is divided into duodenum, ileum and jejunum.	Small intestine is divided into duodenum and ileum.
Small intestine is long	Small intestine is short