**Rimamchatin Peculiar**

**17/MHS01/287**

**ANA 314**

**1**. Comparative anatomy is the comparative study of the body structures of different species of animals in order to understand the adaptive changes they have undergone in the course of evolution from common ancestors.

**2.** The criteria necessary to caring for laboratory animals include:

i.) Room temperature

ii.) Humidity

iii.) Ventilation

iv.) Illumination and light schedule

v.) Noise moderation

**3.** i.) Similarities between the digestive system of amphibians (frogs) and mammals (humans) include:

- Presence of mouth
- Presence of esophagus
- Presence of teeth
- Presence of tongue
- Presence of stomach
- Presence of gall bladder
- Presence of liver
- Presence of small intestine
- Presence of large intestine

ii.) Differences between the digestive system of amphibians(frogs) and mammals(humans) are:

| **Frog** | **Human** |
|---|---|
| Frogs swallow their prey without chewing | Chewing is a mechanical digestion in humans |
| During deglutition frogs blink or close their eyes | This is not seen in humans |

| | |
|---|---|
| Frogs have two sets of teeth; maxillary teeth and vomerine teeth | Man has one set of teeth in their oral cavity |
| The tongue of the frog is attached to the starting point of the mouth | The tongue of the frog is attached to the back of the mouth |
| Frogs don't have strong teeth they use their teeth to hold their prey | Man has strong teeth. Man can use their teeth to chew their food |
| The top of the tongue is folded backwards | The top of the tongue is straight |
| The tongue is very sticky | The tongue is not sticky |
| Frogs have shorter intestine and the two parts of the intestine are the duodenum and ileum | Man has a longer small intestine and the three parts of the intestine are duodenum, jejunum and ileum |
| Absorption of nutrients of frogs occurs in the ileum | Absorption of nutrients of man occurs in the jejunum |
| Elimination of indigested food occurs through the cloaca | Elimination of undigested food occurs through the rectum |