

CA

(39)

No. of Printed Pages: 2

**SARDAR PATEL UNIVERSITY**  
**B.Sc. ( Semester V) Examination**  
**2013**

**Friday, 15<sup>th</sup> November**

**10:30 am to 1:30 pm**

**US05CZOO02- Comparative Anatomy of Chordata**

**Total Marks: 70**

**Note: Figures to the right indicate marks.**  
**Draw diagrams wherever necessary.**

**QI Multiple Choice Questions.**

**[10]**

1. Sweat gland is the example of \_\_\_\_\_ gland.  
 (a) Simple saccular (b) Simple tubular  
 (c) Compound saccular (d) Simple coiled lobular
2. Name the muscle which is associated at the basal part of hair to upper part of dermis.  
 (a) Erector pilli (b) Retractor muscle  
 (c) Protractor muscle (d) None
3. The cattle contains which type of horn?  
 (a) Keratin horn (b) Hollow horn  
 (c) Prong horns (d) Antlers
4. The wheel organ present in  
 (a) Lamprey (b) Amphioxus  
 (c) Shark (d) Amphibians
5. The tusk of elephants are the modification of  
 (a) Incisor teeth (b) Premolar teeth  
 (c) Canine teeth (d) Molar teeth
6. Which group does not possess teeth?  
 (a) Fishes (b) Reptiles  
 (c) Amphibian (d) Birds
7. Spiral valves are present in the intestine of  
 (a) Cyclostomes (b) Elasmobranch  
 (c) Caecilian (d) Lacertilia
8. The cystic duct arises from  
 (a) Liver (b) Pancreas  
 (c) Gall bladder (d) None
9. Name the first aortic arch  
 (a) Mandibular aortic arch (b) Hyoid aortic arch  
 (c) Pulmonary aortic arch (d) Systemic arc
10. Histologically, the layer present in the arteries & veins are  
 (a) Tunica interna (b) Tunica media  
 (c) Tunica externa (d) All of these

**[P.T.O.]**

**QII. Answer the following in short. (Attempt any ten)**

**[20]**

1. Write a note on glands of Fishes.
2. Sketch & label the diagram of mammalian skin.
3. Give an account on the lips of Vertebrates.
4. Write a note on contour feather.
5. Write a note on the teeth of Amphibians.
6. Differentiate between monophyodont & polyphyodont.
7. Draw the labeled diagram of Human stomach.
8. Give an account on the structure of liver.
9. Mention the crop glands of Birds.
10. Write a note on capillaries.
11. Differentiate the arteries & veins.
12. Draw a labeled diagram of Human heart.

**QIII Write notes on :**

(a) Scales found in fishes

**[05]**

(b) Mammary glands

**[05]**

**OR**

**QIII Write an essay on Hair.**

**[10]**

**QIV Write a note on oral cavity in vertebrates.**

**[10]**

**OR**

**QIV Describe :**

(a) Teeth of mammals

**[05]**

(b) Tongue of mammals

**[05]**

**QV Describe the comparative anatomy of Intestine of vertebrates.**

**[10]**

**OR**

**QV Write notes on :**

(a) Ruminating stomach.

**[04]**

(b) Comparative anatomy of Oesophagus.

**[06]**

**QVI Write an essay on 3 & 4 Chambered heart.**

**[10]**

**OR**

**QVI Write notes on:**

(a) Aortic arches of Amphibians.

**[04]**

(b) Comparative anatomy of lymphatic system.

**[06]**

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