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SARDAR PATEL UNIVERSITY
BSc 5th Semester Examination
2012
Tuesday, 27th November
2:30 to 5:30 p. m.
US05CZOO02-Zoology
Comparative Anatomy of Chordates

Total Marks : 70

- Q.1 Multiple choice questions. [10]**
- (i) The phenomenon by which animals can change body colour is known as
 - (a) Pigmentation (b) Tanning
 - (c) Metachrosis (d) Ecdysis
 - (ii) Which glands show the apocrine type of secretion ?
 - (a) Oil glands (b) Scent gland
 - (c) Mucus glands (d) Mammary glands
 - (iii) The type of horns cattle contain are
 - (a) Pronghorns (b) Hollow horns
 - (c) Antlers (d) Keratin horns
 - (iv) The space between the lips and Jaw is
 - (a) Vestibule (b) Cheek
 - (c) Labial frenum (d) None
 - (v) Which of the following type of papillae the mammalian tongue does bear
 - (a) Filiform (b) Circumvallate
 - (c) Fungiform (d) All of the above
 - (vi) Which group does not possess teeth ?
 - (a) Fishes (b) Amphibians
 - (c) Birds (d) Reptiles
 - (vii) The oesophagus lined with horny papillae is found in
 - (a) Frog (b) Toad
 - (c) Bird (d) None
 - (viii) Spiral valves in the intestine is the character of
 - (a) Cyclostome (b) Caecilians
 - (c) Elasmobranchs (d) Lecertilia
 - (ix) Islets of Langerhans are found in
 - (a) Liver (b) Stomach
 - (c) Pancreas (d) Duodenum
 - (x) Two chambered heart is found in
 - (a) Fishes (b) Reptiles
 - (c) Amphibians (d) Aves
 - (xi) Find the animal with enucleated RBCs
 - (a) Shark (b) Toad
 - (c) Snake (d) Man

- (xii) First aortic otherwise known as
 (a) Manubular aortic arch (b) Systemic arch
 (c) Pulmonary arch (d) Hyoid arch

Q.2 Short questions (Answer any ten) [20]

- (i) Draw labeled diagram of T.S. of mammalian skin.
 (ii) Describe filopumes.
 (iii) Write a note on glands of fishes.
 (iv) Describe the mouth of Amphioxus.
 (v) Describe the lips of vertebrates.
 (vi) Draw a diagram of premolar tooth with labels.
 (vii) Explain structure of pancreas in brief.
 (viii) Write about intestine of amphibians.
 (ix) Draw the labeled diagram of ruminant stomach.
 (x) Differentiate between artery and vein.
 (xi) Describe the heart of cyclostomes.
 (xii) Write a note on spleen.

- Q.3 (a) Write a note on mammary glands. [05]**
(b) Describe types of feathers. [05]

OR

- Q.3 Write an essay on hair. [10]**

- Q.4 (a) Describe the teeth of mammals. [06]**
(b) Write a note on tongue of mammals. [04]

OR

- Q.4 Describe the glands of the oral cavity in vertebrate. [10]**

- Q.5 (a) Compare the anatomy of oesophagus in vertebrates. [06]**
(b) Draw labeled diagram of section of mammalian liver. [04]

OR

- Q.5 (a) Compare the anatomy of stomach in vertebrates. [06]**
(b) Draw labeled diagram of intestine of mammals. [04]

- Q.6 (a) Describe the heart of fishes. [03]**
(b) Write a note on lymphatic system. [07]

OR

- Q.6 (a) Describe four chambered heart. [03]**
(b) Describe the evolution of aortic arches of Amphioxus, Cyclostomes and fishes. [07]

