



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2020

ZOOACOR08T-ZOOLOGY (CC8)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) What is aqueduct of Sylvius?
 - (b) Distinguish between sulci and gyri.
 - (c) What is “foramen of Panizza”?
 - (d) What do you know about tectum and tegmentum?
 - (e) Name the 1st and 2nd visceral arch found in vertebrates.
 - (f) Comment on Craniostylic Jaw Suspension.
 - (g) Differentiate between apocrine and merocrine gland.
 - (h) State the functions of 10th cranial nerve in mammals.
 - (i) Classify nociceptors present in the skin.
 - (j) Distinguish between Wolffian duct and Müllerian duct.
 - (k) What are carnassials?
 - (l) State the functions of neopallium.
 - (m) Draw a neat diagram of a mammalian teeth and label its major parts.
 - (n) How many aortic arches are found in cyclostomes and reptiles?
 - (o) What is Axial skeleton?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) What are the various types of horns found in mammals? How do they differ from antlers? 2+1
 - (b) Discuss the basic plan of lung structure in mammals. 3
 - (c) Compare between mesonephric and metanephric kidney with suitable diagram. 3
 - (d) Discuss the structure of female urinogenital ducts in various vertebrate groups. 3
 - (e) Delineate the modification of aortic arch in mammals with suitable diagram. 3
 - (f) Define Receptor. Add a note on chemoreceptor in vertebrates. 1+2

3. Answer any *three* questions from the following: 5×3 = 15
- (a) Furnish an account on the comparative anatomy of cerebellum in different vertebrate groups with suitable diagram. 5
- (b) How does the anatomy of ruminant stomach differ from that of other mammals? What is lacteal and what is its function? 3+2
- (c) How does auditory transduction occur in the inner ear? What is “organ of Corti”? 3.5+1.5
- (d) Register anatomical features of crocodilian heart. Draw a neat and labelled diagram of Neoceratodus heart. 3+2
- (e) Discuss the evolution of visceral arches in birds and mammals. What are the components of contour feather? 3+2
- (f) Describe the components of appendicular skeleton in human. 5

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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