



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2021

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.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) What is Bulbus arteriosus?
 - (b) Name four dermal derivatives found in mammals.
 - (c) What is craniostylic jaw suspension? Where does it found?
 - (d) Distinguish between sulci and gyri.
 - (e) Draw a diagram of mammalian hair and label it.
 - (f) Name fifth and seventh cranial nerves found in vertebrates.
 - (g) Write down the name and location of valves in heart.
 - (h) Write down two properties of receptors.
 - (i) What are corpus striatum and choroid plexus?
 - (j) Write down the dental formula of elephant and guinea pig.
 - (k) What kind of jaw suspensions are found in crossopterygian and bony fishes?
 - (l) What is syrinx? State its function.
 - (m) What is carnassial teeth?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Enumerate briefly the Jaw suspension of lizards and snakes. 3
 - (b) Describe the dentition in vertebrates on the basis of mode of attachment. 3
 - (c) Write a short note on double circuit heart. 3
 - (d) What are the modifications of lungs found in birds for aerial mode of life? 3
 - (e) Draw and label a typical mammalian teeth. 3
 - (f) How is horn of buffalo different from that of antler? 3

3. Answer any **three** questions from the following: 5×3 = 15
- (a) Give a comparative account of heart in fish and amphibian. 5
- (b) Describe the comparative account of stomach in reptiles and birds with simple diagram. $2\frac{1}{2} \times 2 = 5$
- (c) Briefly discuss the significance of aortic arches. 5
- (d) Write short notes on (any **two**): $2\frac{1}{2} \times 2 = 5$
 (i) Ruminant stomach, (ii) Reptilian heart, (iii) Classification of receptors
- (e) Write down a comparative account of brain in reptiles and mammals. $2\frac{1}{2} \times 2 = 5$
- (f) What is meant by 'true horns'? Where is it found? How do they differ from 'hair horns'? 2+1+2

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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