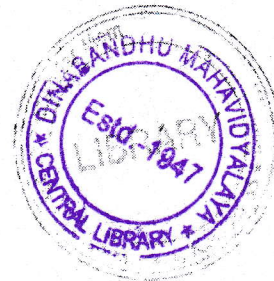




WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Examination, 2021



ZOOACOR08T-ZOOLOGY (CC8)

Full Marks: 40

Time Allotted: 2 Hours

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.*

2×8 = 16

1. Answer any **eight** questions from the following:

- What is Bulbus arteriosus?
- Name **four** dermal derivatives found in mammals.
- What is craniostylic jaw suspension? Where does it found?
- Distinguish between sulci and gyri.
- Draw a diagram of mammalian hair and label it.
- Name fifth and seventh cranial nerves found in vertebrates.
- Write down the name and location of valves in heart.
- Write down two properties of receptors.
- What are corpus striatum and choroid plexus?
- Write down the dental formula of elephant and guinea pig.
- What kind of jaw suspensions are found in crossopterygian and bony fishes?
- What is syrinx? State its function.
- What is ~~is~~ carnassial teeth?

2. Answer any **three** questions from the following:

3×3 = 9

- Enumerate briefly the Jaw suspension of lizards and snakes. 3
- Describe the dentition in vertebrates on the basis of mode of attachment. 3
- Write a short note on double circuit heart. 3
- What are the modifications of lungs found in birds for aerial mode of life? 3
- Draw and label a typical mammalian teeth. 3
- How is horn of buffalo different from that of antler? 3

3. Answer any *three* questions from the following:
- (a) Give a comparative account of heart in fish and amphibian. $5 \times 3 = 15$ 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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