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. $2\frac{1}{2}$×2 = 5

(c) Briefly discuss the significance of aortic arches. 5

(d) Write short notes on (any *two*): $2\frac{1}{2}$×2 = 5

(i) Ruminant stomach, (ii) Reptilian heart, (iii) Classification of receptors

(e) Write down a comparative account of brain in reptiles and mammals. $2\frac{1}{2}$×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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