

University of Calcutta
City College Center
Department of Zoology
ZOOA, Part – I Honours Examination, 2020
Paper- I, Unit - I
Full Marks-25

1. Answer *any four* questions from the following: 5X4
- (a) What are the important respiratory pigments in arthropods?
 - (b) Mention the systematic position of Portuguese-man-of-war.
 - (c) Define metamerism.
 - (d) Write the location and function of Tiedemann's bodies.
 - (e) Mention two distinguishing features of Perissodactyla.
 - (f) Distinguish between down feather and filoplume.
 - (g) What is 'Wheel organ of Muller'? In which animal it is found?
 - (h) What are the chambers found in ruminant stomach in cow?
2. Answer *any one* questions from the following: 5X1
- (a) Give an account of polymorphism in Siphonophores. 5
 - (b) State the progressive and retrogressive features of *Ascidia* during its development. 5
 - (c) Place the following animals (any two) into their respective class, sub-class/order with reasons mentioning at least two characters for each taxon. $2^{1/2} + 2^{1/2}$
- Pila sp., Periplaneta sp., Catla catla, Hyla sp.*