QP Code: RD22MSC159 | Reg. No | | | | | | | | | | | AY 22

GIET UNIVERSITY, GUNUPUR – 765022

M. Sc. (Third Semester) Examinations, December – 2023

23ASCBOE306 – Animal Physiology and Taxonomy

(Life Sciences)

Time: 3 hrs | Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A **(2 x 10 = 20 Marks)**

Q.1. Answer ***ALL*** questions	CO #	Blooms Level
a. What is gene flow?	CO3	K3
b. What is taxonomy?	CO4	K4
c. What is the function of saliva in digestion?	CO1	K3
d. What are vestigial organs?	CO1	K3
e. Explain the term natural selection,	CO1	K3
f. Define molecular evolution.	CO2	K3
g. What do you mean by trace fossils?	CO2	K3
h. What are characteristics of vertebrates.	CO1	K3
i. What is cosmopolitan distribution?	CO3	K3
j. What is role of Calcium in muscle contraction?	CO3	K4

PART – B **(10 x 5 = 50 Marks)**

Answer ***ANY FIVE*** questions	Marks	CO #	Blooms Level
2. a. Write a note on fossils.	5	CO2	K3
b. Discuss about the various patterns of evolution.	5	CO2	K3
3.a. Write a note on animal distribution all over the world.	5	CO3	K2
b. Write a note of conducting system of heart.	5	CO1	K3
4. With a neat and a labelled diagram, describe the digestion and absorption.	10	CO1	K4
5.a. What are the factors affecting Hardy-Weinberg's law?	4	CO3	K3
b. Define species. Discuss process of species formation.	2+4	CO3	K3
6. a. Describe macroevolution with example	5	CO2	K3
b. Describe physiology of vision.	5	CO1	K3
7.a. Discuss about the numerical taxonomy.	5	CO4	K4

b.	Write a note on ultrastructure of nephron.	5	CO3	K3
8.	Explain the taxonomic procedure for collections, their identification, curating and preservation techniques.	10	CO4	K3