

Version-B

PART – B

ZOOLOGY

HSE-I

(Maximum : 20 Scores)

Time : 1 Hour

I. Answer any 3 questions from 1 to 5. Each carries 1 score. (3×1=3)

1. Name the biological phenomenon helps in the gas exchange across alveolar membrane and tissue?
2. Unit of classification is _____.
a) Taxon b) Species c) Genus d) Cell
3. Note the relationship in the first pair and then complete the second pair.
Porifera : Asymmetry
Cnideria:.....
4. In frog during aestivation and hibernation gaseous exchange takes place through.....
a)Skin b)Lungs c)Buccal cavity d)Vocal sac
5. Find the odd one and write the reason for selection
Cellulose,Starch,Glycogen,Insulin

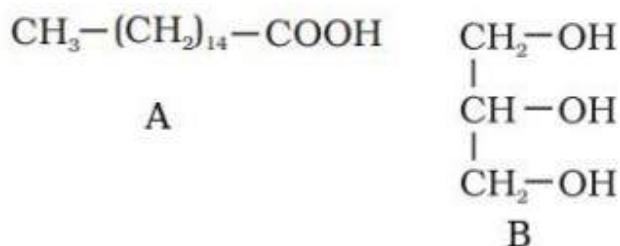
II. Answer any 7 questions from 6 to 14. Each carries 2 scores. (7×2=14)

6. a)Write any three factors which affect enzyme activity
b)Name the chemicals, which shut off enzyme activities ?
7. Breathing involves Inspiration and expiration. Name the muscles which are involved in breathing?
8. What is the difference between
a)Poikilothermous and Homiothermous
b)Hermaphrodites and dioecious
9. " Proteins is a heteropolymer not a homopolymer " . Substantiate the statement
10. Frogs exhibit sexual dimorphism. Differentiate between male and female frog
11. Particular character of phylum are given below, name the phylum to which it belongs
a)Radula b)Cnidoblast c)Pseudocoelomate d)Metagenesis

12. Most distinctive features of Phylum Echinoderms is the presence of water vascular system

- a) Write any two functions of water vascular system in Echinoderms
- b) Name the Phylum in which water transport/canal system is present

13. Observe the structure



- a) Name the structure A and B
- b) Write an example for phospholipids

14. List any two major factors affecting the dissociation of oxygen from oxyhaemoglobin in the tissues?

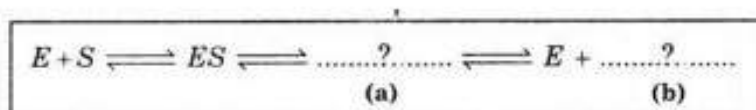
III. Answer any 1 questions from 15 to 17. Each carries 3 scores. (1×3=3)

15. Match the following

Column A	Column B
a) Phylum Arthropoda	i) Water vascular system present
b) Phylum Echinodermata	ii) Commonly Known as Sponges
c) Phylum Hemichordata	iii) Second Largest Animal Phylum
d) Phylum Porifera	iv) Their body surface is distinctly marked out into metamere
e) Phylum Mollusca	v) Largest Phylum of Animalia
f) Phylum Annelida	vi) Presence of stomochord

- 16. a) Write the scientific name of most common species of frog found in India
- b) Name the class and phylum to which it belong
- c) Name the two portal system present in the frog.

17. a) Complete the diagrammatic representation showing the nature of enzyme action :



- b) List out any two factors affecting enzyme activity.
- c) Name the Protein part of an enzyme