Part III – BIOLOGY Part B – ZOOLOGY Marks: 30 Time: 1 hr

1. *Homo sapiens* is the scientific name of human beings. Write any two features of binomial nomenclature.

Score 1

2. Identify the figure?



a. Mention its function? Score 1 b.List any four features of the phylum in which this structure belongs? Score2

3. Match the column A with B and C

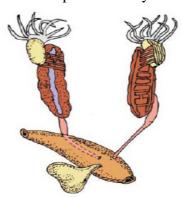
Score 2

A B C
a.Platyhelminthes Gills Nereis
b.Annelida Flame cells Tape worm
c.Arthropoda Nephridia Pila
d.Mollusca Malpighian tubules Cockroach

4.Find the odd one and give reason. Flying fish, Angel fish, Jelly fish, Dog fish

Score 1

5. The following diagram shows the male reproductive system of frog.



a.Copy the diagram? Score 1 b.Label the following parts in the diagram.(Testis,Rectum,Cloaca,Urinogenital duct)Score2

6. By observing the first relation, find out the missing word?

Score 1

a. Bone to bone: Ligament :: Bone to muscle:

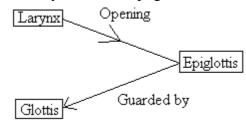
- 7. Find out the appropriate biomolecules and match it with the items given below. Score2 a.Biological catalyst:....
- b.Genetic material:....

(Aminoacid, Glycogen, Enzymes, Nucleic acids, fats)

- 8. Name two types of bonds found in biomolecules formed by dehydration? Score 1
- 9. Write down the dental formula for the

Score 2

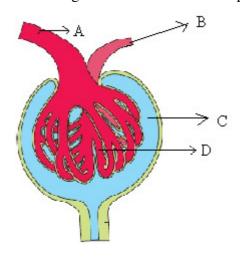
- a. Milk dentition in man
- b.Permanent dentition in man
- 10. Analyse the concept given below and if there is any mistake reconstruct it.? Score2



- 11. a.Prepare a correct flow chart showing the spreading of cardiac impulse by using the Score 2 following structures.
- (AV node, Bundle of His, Purkinjie fibres, SA Node, Right and Left Branches of Bundle of His)
- b. Which is known as the pacemaker of the Heart?

Score1

12. The diagram of the Bowman's capsule is given below.



Redraw and label the parts A, B, C &D

Score 2

Score 2

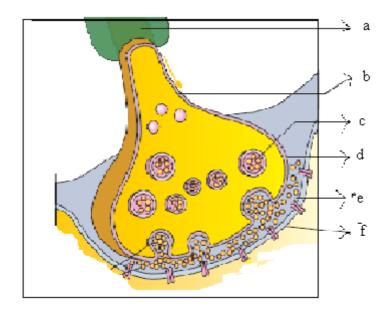
13. Write the expansion of the following.

a .FSH

b.ACTH

c. ADH

d. TSH



15. A muscle cell viewed under microscope shows the following characters. (Sarcolemma present, cylindrical shape, multinuclear, striations present) a. Identify the type of muscle? b.Mention its function?

Score 2

Prepared by Group-9

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