

**RAJA RAVI VARMA GIRLS HIGHER SECONDARY SCHOOL , KILIMANOOR**  
**FIRST YEAR HIGHER SECONDARY PRE MODEL EXAM 2023**

**ZOOLOGY**

Maximum : 30 Scores

Time: 1 Hour

RRV GIRLS KILIMANOOR

Cool off time : 15 Minutes

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***Answer any 3 questions from 1 to 5. Each question carries 1 mark (3\*1=3)***

1. Excess secretion of growth hormone in adults leads to .....  
a. gigantism b. cretinism c. acromegaly d. Addison's disease
2. The nerve fibres which connect the two cerebral hemispheres is .....
3. Note the relation between the first pair and complete the second pair  
Malpighian tubule:arthropoda  
.....:Annelida
4. Pair of contrasting characters in a key is called.....
5. The endocrine part of pancreas is .....

***Answer any 9 Questions. Each question carries 2 marks (9\*2=18)***

6. a. Sharks have to swim continuously to avoid sinking. Give reason  
b. Name the class to which shark belongs.
7. Calcium level in blood is maintained by two hormones  
a. Name the hormones involved in this mechanism  
b. How do these hormones maintain the calcium level in our body

8. Match the following

A	B
Comb plates	Pila
Radula	Balanoglossus
Ostia	Pleurobrachia
Proboscis gland	Sycon

9. During each cardiac cycle heart produces two prominent sounds

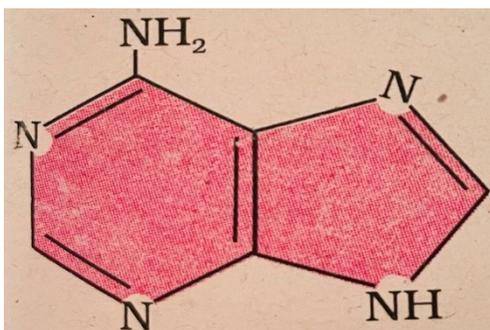
a. What are the two sounds produced by the heart

b. How are these sounds produced

10. What is a synapse. Differentiate between a chemical synapse and an electrical synapse

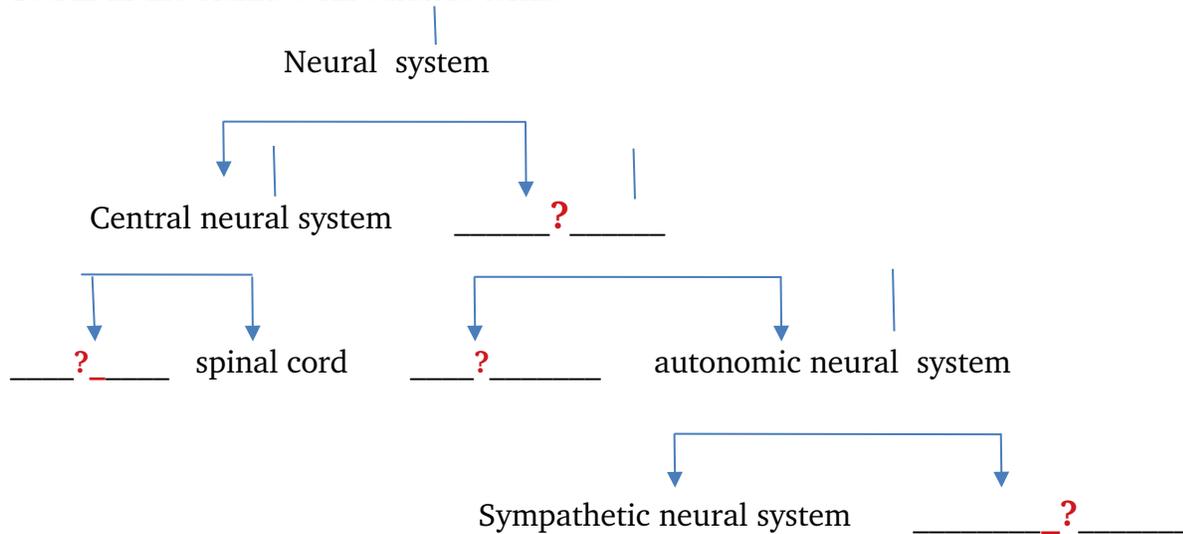
11. Joints are points of contact between two bones. Write any two types of synovial joints and their location in our body

12. a. Identify the organic compound



b. Which compound is formed if a phosphate group is attached to it

13. Fill in the blanks with suitable terms



14. Differentiate between diabetes insipidus and diabetes mellitus

15. Snakes and crocodiles are included in the same class

- a. Name the class in which these animals belong
- b. Write any two identifying characters of this class

16.

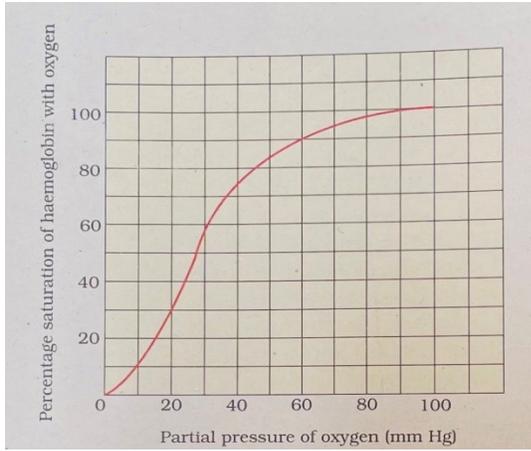


- a. Identify the figure
- b. Name the phylum possessing the cell
- c. Write the functions of this cell

Write any three questions from 17 to 20. Each question carries 3 marks

17 .a. Identify the figure

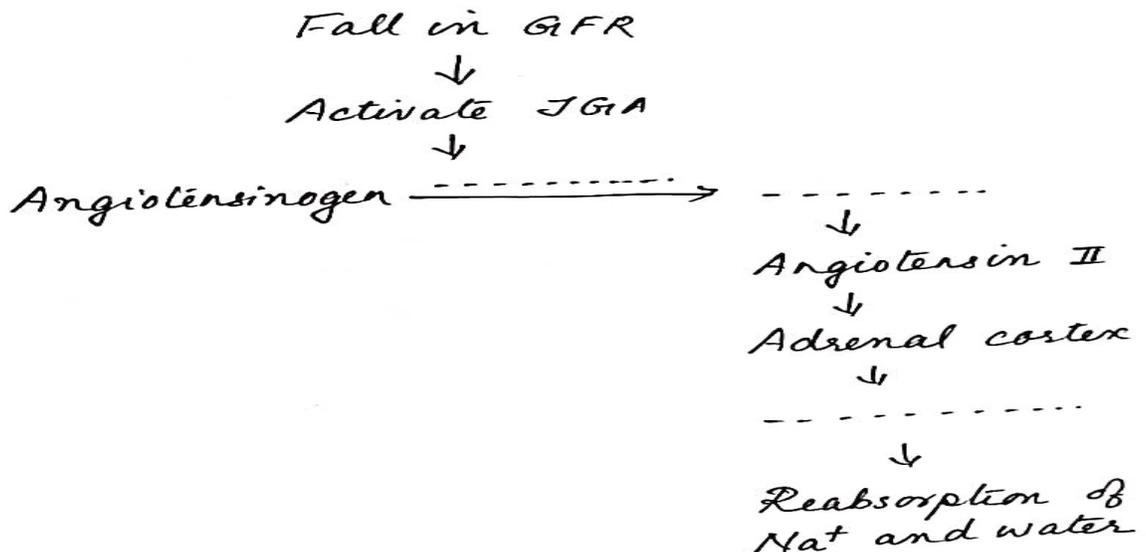
(3\*3=9)



b. List the factors which affect this graph

c. If the partial pressure of oxygen is 60, find the percentage of saturation of Hb with oxygen

18.a. Complete the flow chart

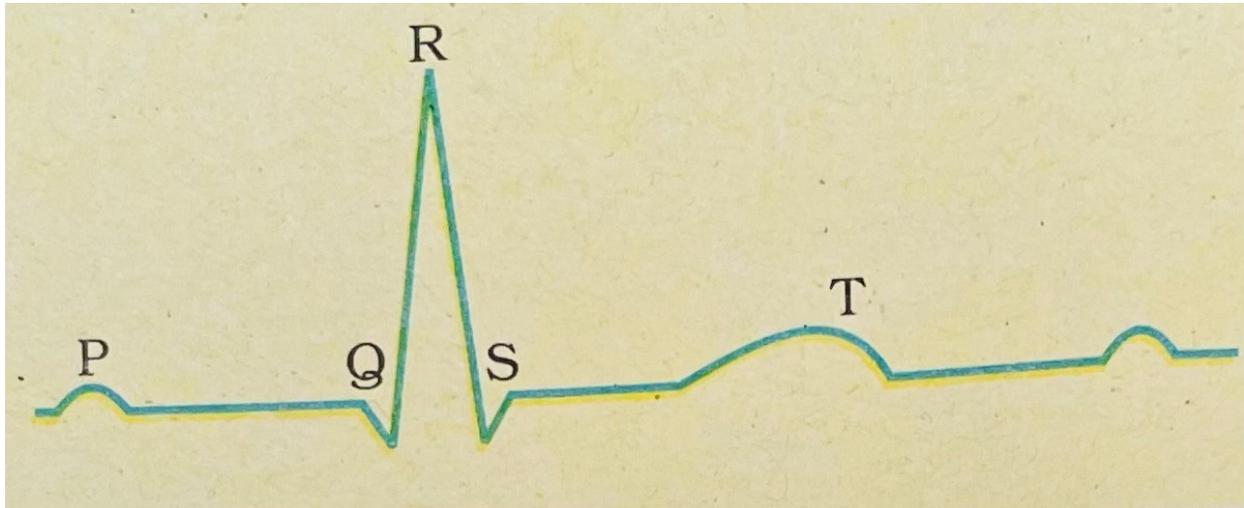


b. Which hormone acts as a check to this mechanism and name the organ producing this hormone

19. Enzymes are biological catalysts

- a. Write the factors affecting enzyme activity
- b. What is the role of competitive inhibitor during enzyme action
- c. What is the use of a competitive inhibitor

20. A standard ECG is given below



- a. What is an ECG
- b. What does each wave in an ECG represent
- c. Write the clinical significance of ECG

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