

Zoology Teachers Association Malappuram

First Year Higher Secondary Pre model Examination-2022

Total Score: 30

Time: 1Hour

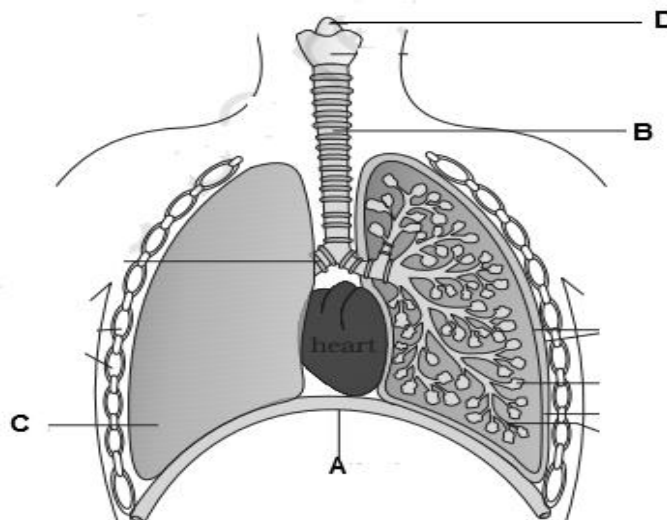
Zoology

Answer all questions from 1 to 3. Each carry 1 score

1. Scientific name of an organism consist of two components
a)Generic name b).....
2. The rudimentary structure similar to notochord in hemichordate is.....
3. Select the correctly matched pair from the following
a)Lungs: Pleural membrane
b)Kidney: Cranial Meninges
c)Brain: Renal Capsule
d)Heart: Glisson's capsule

Answer any Nine questions from 4 to 14. Each carry 2 score

4. (a) Monomer of inulin is.....
(b) In polysaccharides, the individual monosacharides are linked by.....bond
5. Write the functions of the following cells in gastric glands
a)Mucus neck cells b)Parietal cells or oxyntic cells
6. Answer the following questions
a)Cockroach can receive several images of an object with the help of Ommatidia, this kind of vision is called.....
b) Write the Composition of Haemolymph in cockroach ?
7. Name the following
a) Tissue which act as support frame work for epithelium
b) Fat storing tissue
c) Muscles, their cells taper at both ends and do not show striations
d) Cells that forms more than half volume of neural tissue
8. Observe the diagram of human respiratory system and label A,B,C, and D



9. (a) Calculate the cardiac output of a healthy adult man (Hint: Stroke volume=70ml)

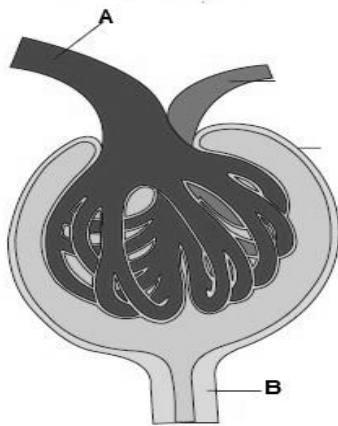
(b) Fill the blank portion with appropriate words or terms

SA Node →A..... → Bundle of His →B..... → Ventricle contract

10. Complete the table

Excretory Organs	Examples
Antennal glandA.....
.....B.....	Rotifers
NephridiaC.....
.....D.....	In most insects

11. Observe the given diagram



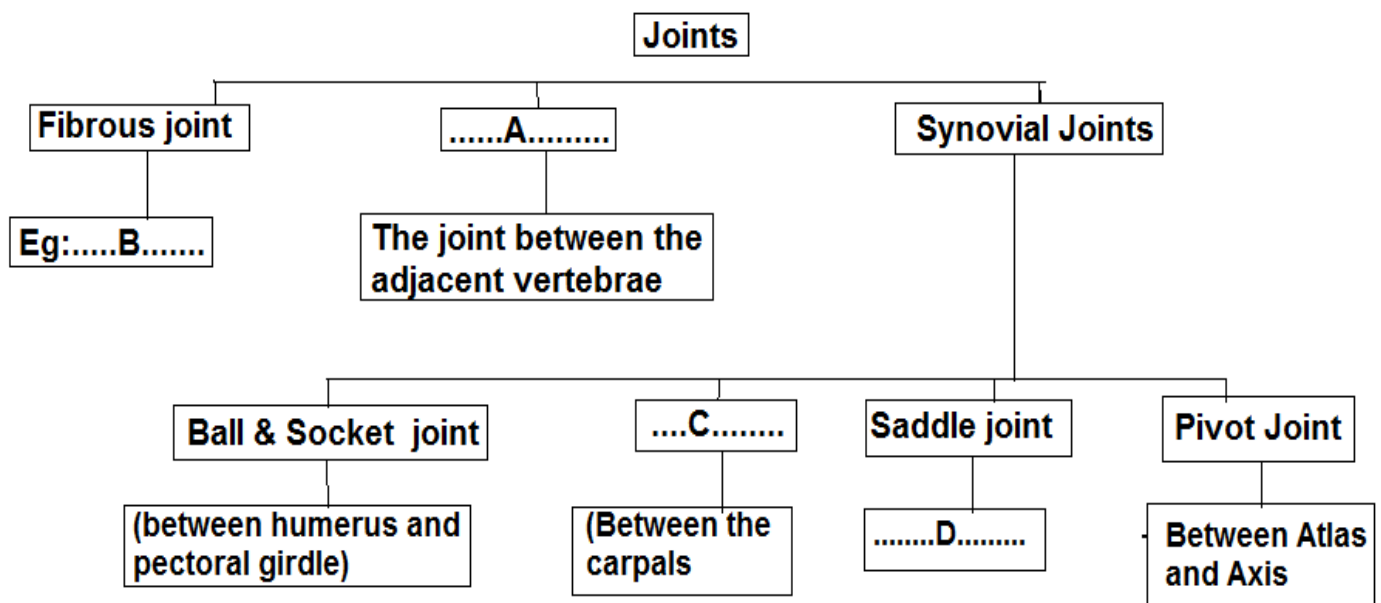
a) Identify the structure

b) Label A and B

12. a) Each coxal bone is formed by the fusion of three bones. Name the 3 bones

b) Define gout

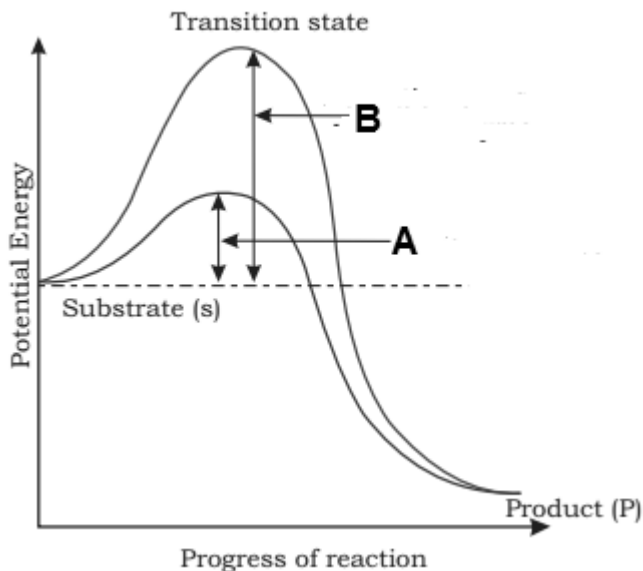
13. Complete the flow Chart



14. Name the following structure /part of brain with the following functions
- (a) It controls emotions and sexual behavior
 - (b)It controls cardio vascular reflexes and Gastric secretions
 - (c) It is associated with memory and communication
 - (d)It control urge for eating and drinking

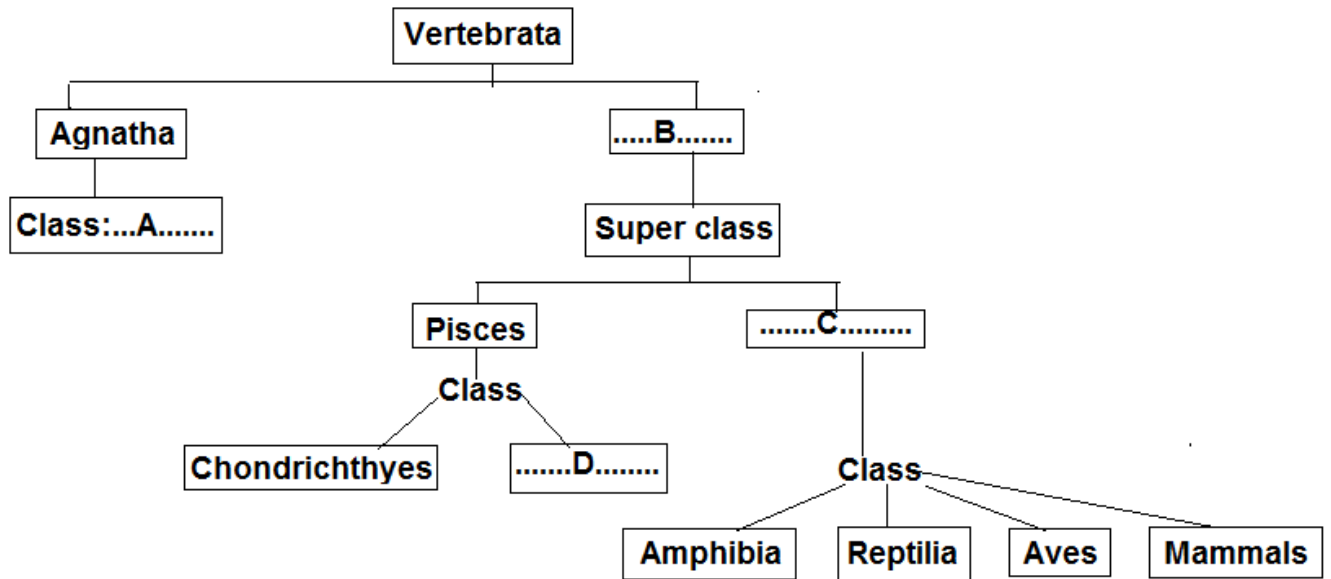
Answer any three questions from 15 to 18. Each carries Three score

15. Name the hormone
- a)Hypoglycemic hormone secreted by the pancreas
 - b)Hypercalcemic hormone secreted by the Parathyroid gland
 - c)Hormone ,which regulate 24 hour rhythm of our body
 - d)Hormones of fight or flight secreted by the adrenal medulla
 - e)Hormone secreted from the heart which decrease blood pressure
 - f) The juxtaglomerular cells of kidney produce a peptide hormone called.....
16. Observe the graph showing the concept of activation energy



- a)Identify A and B
 - b)Name any 2 factors affecting the enzyme action
 - c)Define competitive inhibitor
17. Name the phyla from the given characters
- a)They possess choanocytes/collar cells
 - b)Body is dorso ventrally flattened
 - c)Their mouth contain rasping organ called Radula
 - d)Body is distinctly marked out into segments /metamere
 - e)They possess notochord, dorsal hollow nerve cord and triploblastic
 - f)The largest phylum which include the insects

18. a) Complete the flow chart



b) Which subphyla of animal are referred to as Protochordates

c) Name the class of Chordates which has hair on their skin

Questions prepared by

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