MODEL QUESTION PAPER - ZOOLOGY

HSE (I)	Cool-off time: 8 min
	Time: 1 hr.
	Score: 30

1) Match the following:

Enzyme	Substrate	Product
Ptyalin	Lactose	Maltose
Pepsin	Protein	Trypsin
	Lipid	Fatty acid
	Starch	Peptides

(Score: 2)

- 2) Find out the mismatching pair:
- a) Albumin Provides the colloid osmotic pressure in plasma
- b) Globulin Acts as antibodies
- c) Fibrinogen Transportation of nutrients

(Score: 1)

3) Complete the blanks:

Characters	Phylum
a) Body has similar segments b)Body has jointed legs c)Body has water vascular d)Body is cylindrical	*
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(Score: 2)

4) Given below are the names of taxa and examples at different hierarchal levels. Arrange them in the correct order:

Kingdom Felidae Species Carnivora Phylum Panthera Order Mammalia Class leo Genus Anemalia Family Chordata. (Score: 1)

- 5) Suppose you dramatically escaped from a motor accident. Your heart beat and rate of respiration was increased at the moment.
- a) Name the hormone involved in this change. (1)

- b) Which part of the nervous system controls these actions? (1)
- c) Enlist the other physiological changes that you may feel at that time. (1)

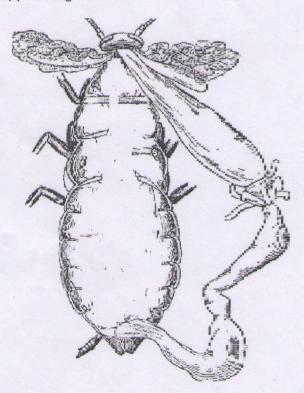
(Score: 3)

6) Few gaps have been left in the following table showing certain terms and their meanings. Fill up the gaps:

No.	Terms	Meanings
1	Amino acids	(a)
2	(b)	The combination of a base,a sugar & phosphate
3	Ligase	(c)
-4	(d)	A tightly bound non-protein component of an enzyme

(Score: 2)

7) Copy the diagram:



(1)

Label the following parts & write down their functions:

- A) Hepatic caeca
- b) Gizzard

- (1x2=2)
- (Score: 3)
- 8) During respiration air enters the body through the external nostrils & reaches the bronchioles through the air passages. Prepare a flow chart showing the route of air movements. (Score: 2)
- 9) Primates dominate all other mammals. Give reason?

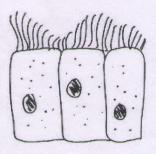
(Score: 1)

10) A sharp tap is given at your knee cap with rubber hammer. You suddenly stretch your leg.

- a) Name the response. (1/2)
- b) Which nerve centre is involved in this action? (1/2)
- c) Construct a flow chart for the pathway of impulses in this action. (2)

(Score: 3)

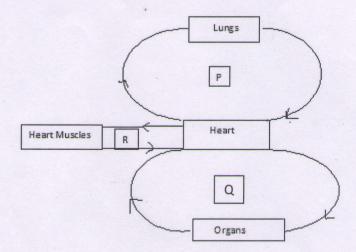
11) Observe the diagram & answer the following questions:



- a) Identify the tissue. (1/2)
- b) Write the location where it is found. (1/2)
- c) Mention its function.
- (1)

(Score: 2)

- 12) Study the diagram & answer the questions:
- a) Which one is lesser circulation? (1/2)
- b) Name the circulation which supplies blood to the heart muscles. (1/2)
- C) Which one is systemic circulation & write down its function. (1)



(Score: 2)

13) Based on the nitrogenous material excreted, classify the below organisms:

Birds, bony fishes.cartilagenous fishes, tadpole. Crocodile, snakes, frog, man, elephant, terrestrial insects, aquatic insects, land snails. (Score: 2)

14) Compare the following condition with special reference to hormonal action:

First messenger & second messenger

(Score: 1)

15) Write down the bones in which the following structures are found:

Foramen magnum, Acetabulum, Glenoid cavity, Acromion

(Score: 2)

16) "It is a clear colourless fluid, similar to blood plasma, except that it has much lower proportion of protein & cholesterol. It is present in the sub-arachnoid space." Identify the fluid and give its function.

(Score:1)
