

Model Question Paper 2012

HSE 1

ZOOLOGY

Max.scores:30

Time: 1 hr

(1). Complete the following after observing the relationship of the first pair

a) Protein: Peptide bond Nucleic acid .....

b) Fat: Fatty acid and Glycerol Carbohydrate.....

1 score

(2).you are given a pair of following organisms. How will you distinguish their male&female

a) Round worm b) cockroach

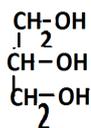
1 score

(3).Once you visited a place where different kinds of animals are preserved.

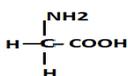
a) How these animals are preserved b) Write any two advantages

1 score

(4). Identify A &B



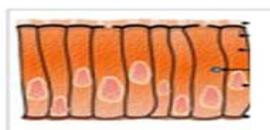
(A)



(B)

1 score.

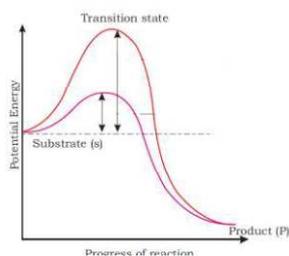
(5) a) Identify the tissue



b) Write the location and function of this tissue

1 ½ scores

(6).Observe the given graph.



a) Which curve indicate the activity of an enzyme

b) Write any two factors that affect enzymatic activity

1 ½ scores

(7).Complete the following equations

a) Sucrose  $\xrightarrow{\text{(a)}}$  Glucose +  $\text{(b)}$

b)  $\text{(c)}$   $\xrightarrow{\text{Enterokinase}}$   $\text{(d)}$

2 scores

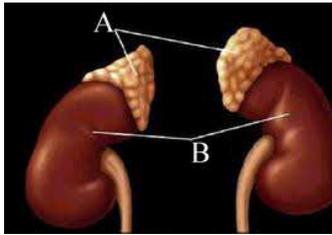
(8) By reading the statements identify the disorders

- a) Damage of alveolar wall due to smoking    b) Skin, eyes and nails turn yellow    c) Deposition of Ca, fat, cholesterol.etc in the lumen of cardiac artery    d) Rapid spasms in muscle due to low Ca ions in body fluids 2 scores

(9). Sort the terms given below under two headings.

Collateral glands, Mushroom glands, Ejaculatoryduct, oviduct, Ootheca, seminal vesicle 2 scores

10.



b) a) Identify A and B Write any two hormones secreted by A .2 scores

(11) Given below are some common features of certain phyla. Identify the phyla

- (a) Have two basic body forms polyp and medusa (b) Excretion and osmoregulation by Flame cells  
 (c)Mouth contains a file like rasping organ radula for feeding (d) Cylindrical body with proboscis, collar and trunk 2scores

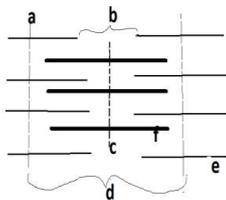
(12).Prepare a flow chart of reflex arc using the following words.

Effector organ, inter neuron, stimulus, efferent pathway, afferent pathway 2 Scores

(13).Two types of cells are found in the retina of the eye.            a) Name them

b) Which one is responsible for dim light vision and vision in bright light 2scores

14 (a) Copy the diagram and label the parts (b) Name the theory explaining the mechanism of muscle contraction 3scores



15. Form most suitable pairs from the following

(Chitin, Mollusca, Collar cells, Arthropoda, Radula, Water vascular system, Porifera) 3scores

16. Rearrange the following statements explaining the regulation of physiology of kidney.

- a) JGA release renin(b) Adrenal cortex Release aldosterone(c) Renin converts angiotensinogen 1 to angiotensinogen d) GFR is low(e) Na<sup>+</sup> and water reabsorption increases resulting in increase in blood volume(f) GFR increases 3 scores

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