## **BIOLOGY MARKING SCHEME**

PAPER 1

(1mk) Define the term 'parthenocarpy'. (a) 1. Without hair tormation PF a Name two plant growth hormones that promote parthenocarpy. (2mks) (b) uvins perellins. Name the organelle that performs each of the following functions in a cell 2. (1mk) Protein synthesis. (i) rosomer (1mk) Transport of cell secretions. (ii) bodies (15 (g Λ 3. The diagram below shows a longitudinal section of mammalian skin. 5 (2mrks) a) Name the parts labelled F and G. F er :Qh G b) State one function of each of the parts labelled H and J lower raile Plaxes 2 aho 1057. marts Ħ a J Page 2 SSS PRE-MOCK 1 2015[Type text]







Daga

(b) State the function of part K

(1mk)



(1mk) Identify the neurone. (a)  $\mathcal{D}\mathcal{V}$ Name the parts labeled. (b) Dog (1mk) А (1mk)ρ B Using an arrow indicate the direction of movement of a nerve impulse along the (c) (1mk)neuron Study the diagram of the mammalian tooth below and answer the questions that follow. 18. (1mk) Identify the tooth. (a) Me-molar Give a reason for your answer in (a) above. (1mk) (b) Coto -hu o uch( đ٨ State one adaptation of the tooth to its function. (1mk) (c) Increase WEde a 341 hewing ajea H area lasps a (p Increa 10 pulla (1mk) Name the part of the brain that regulates breathing 19.a DNga QI ON A. Page 8 SSS PRE-MOCK 1 2015[Type text]



21. The diagram **below** represents the anterior view of a certain vertebra.





24. It was found that during germination of pea seeds 9.3cm<sup>3</sup> of carbon (iv) oxide was produced while 9.1cm<sup>3</sup> of oxygen was used up. Calculate the respiratory quotient (RQ) of the reaction taking place. (2mks) a)

arbon oples 200) N7 Vonsume A) 1 hei )Q 9.3 9, (1mk) b) Identify the type of food substance being metabolized. 100 h 11F (2mks) 25. What is the biological importance of the larval stage during metamorphosis nou and PG em