

(c) State 4 differences between specimen O and specimen N. (4marks)

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(d) Cut specimen M longitudinally using a sharp razor blade. Spread the petals properly. Draw and label one section of the specimen M (6marks)

3. You are provided with specimen K and L.

(a) (i) State the differences between the wings of specimen K and wings of specimen L.

Differences

Wings of specimen K	Wings of specimen L

- i) The organisms belong to the same class. State the distinctive features for their phylum and class.

Phylum (1 ½ marks)

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Class (1 ½ marks)

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- (b) Describe how the following parts of specimen L are modified to suit the organism to its mode of life (4marks)

- (i) Head

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- (ii) Limbs

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- (c) (i) Measure the length of the front limb and hind limb of specimen K and record your result (2marks)

Front limb

Hind limb

- ii) Calculate the ratio of the length of front limb to the length of hind limb (2marks)

- iii) Explain the biological significance of the above ratios in c(ii) (2marks)

- (d) Place specimen K with ventral side upper most. Draw the last three abdominal segments of the specimen. Do not label the drawing.

(3marks)

END