

**BIOLOGY FORM 3 PAPER 3**  
**END OF YEAR 2025 EXAM (OCTOBER)**  
**MARKING SCHEME**

1. a)

Food substance	Procedure	Observation	Conclusion
<b>Starch</b>	Put 1ml of K add 2 drops of iodine	No observable colour change	Starch absent
<b>Reducing sugar</b>	To 1ml K add equal amount of Benedict solution and boil	No observable colour change / colour of Benedict retained	Reducing sugar absent
<b>Non-reducing sugar</b>	- To 1ml of K add 2 drops of diluted HCL and boil; - Cool and add NaHCO <sub>3</sub> until fizzing stops; - Add equal volumes of Benedict solution and boil	Colour changes from blue to green to yellow / brown / orange	Non-reducing sugars present
<b>Protein</b>	To 1ml of K add 1ml of NaOH followed by 2 drops of copper sulphate then shake	Colour changes to purple / violet	Protein present

(9mks)

- b) i) Sucrase  
 ii) Ileum; accept small intestines  
 c) Accept any correct adaptation.

(2mks)

(1mk)

2. a) i) B - pancreas;  
 ii) Hormones;  
 Digestive enzymes ;  
 (Accept one specific hormone and digestive enzyme secreted by pancreas).  
 iii) A - Cardiac splinter muscle;  
 D - Bile duct ;  
 iv) Stores bile ;  
 v) To slow down the movement of food materials. This increases time available for digestion;

3. (i) *Drupe; Fleshy mesocarp and horny endocarp;* (ii) *Cypsela; Remains of the style;*

(b)

<i>S</i>	<i>T</i>
<i>Bigger in size</i>	<i>Smaller in size;</i>
<i>Fleshy mesocarp and horn endocarp</i>	<i>Hard pericarp;</i>
<i>Green</i>	<i>Black;</i>
<i>No persistent calyx</i>	<i>Persistent calyx with hooks;</i>

[mark 1<sup>st</sup> 3]

(c) (i) *Animals; Fleshy mesocarp/ brightly coloured to attract animals;*

(ii) *Animals; Hooks to enable it to adhere/ stick onto the skin of passing animal;*