Biology Paper 3 (231/3)

1. (a) **A:** Liver.

B: Stomach.

C: Spleen.

D: Small intestines.

G: Duodenum.

(5 *mark*)

(b) E: Store faeces/undigested food/indigestible food materials.

F: It contains/stores/harbours bacteria; which produce cellulose/enzymes to breakdown/digest cellulose/digestion of cellulose. (3 marks)

(c) Colon/large intestines.

(1 mark)

(d) (i) Male.

(1 mark)

(ii) Presence of the prostrate gland/testis/seminal vesicles.

(1 mark)

(e) (i)
$$\frac{9}{15} = X \cdot 0.6 / \frac{3}{5}$$

(ii)
$$\frac{14.6cm}{0.6} = 24.3cm$$

(4 marks)

2.

Substance	Food substance	Procedure	Observation	Conclusion
	being tested			
S	Protein.	To 1 ml of food substance add equal amount of sodium hydroxide. Add a few drops of copper sulphate solution dropwise. Shaking after each drop.	Purple violet colour.	Protein present.
T	"	"	No colour change/ blue colour.	Protein absent.
U	"	cc	Light pale purple colour	Trace protein present.

(9 marks)

3. (a)

		mode of dispersal
K	Animal(s).	Hooks.
L	Animal(s).	Fleshy/succulent/juicy
M	Wind.	Parachute hairs/pappus
N	Wind.	Winged/pericarp
P	Animal(s).	Fleshy/succulent
Q	Self mechanism/explosive	Lines of dehiscence/weakness/sutures

(12 marks)

- (b) (i)

- Epicarp. Mesocarp. Endocarp. Seed.

(2 marks)

(ii) Axile/central.

(1 mark) Seed/endocarp. (c)

(1 mark)

 $\underline{http://www.kenyaplex.com/questionpapers/Index.aspx?Institution=KCSE\%20Answers}$