- THE CELL

1.	(a)	- Secretion of useful substances
		- Formation of secretory vesicles
2.	(a)	- Destroying old and worn out organelles
	(b)	- Secretion reticulum (rough)
		- Formation of secretory vesicles
3.	(a)	- Mitochondrion
	(b)	- Chloroplast
4.	- Ribo	somes
	- Endo	plasmic reticulum (rough)
5.	(a)	- X- chloroplasts
		- Y - Vacuole
	(b)	In dim light. They move to the upper part of the cell in order to receive
		enough sunlight for photosynthesis
6.	(a)	- Increase surface area for attachment of respiratory enzymes hence
		increasing rate of respiration.
	(b)	(i) Stroma
		(ii) Absorb sunlight used for light stage of photosynthesis
7.	(a)	Drawing = <u>Length of the drawing</u>
		Magnification Length of the object
	(b)	It is adding a dye to the specimen to make the features clearer and distinguishable

8. - Form vesicles that ransport materials to other parts of the cell e.g. proteins

-Transport secretions to the cell surface for secretion e.g. enzymes and mucus.

- They form lysosomes

9. - Cell wall

- Large vacuole

- Chloroplast

- Starch granules

10. (i) Reflect light from the source to the microscope/specimen

(ii) Regulate amount of light entering the microscope/reaching specimen.

Move body tube up and down in order to obtain a rough focus of the image of

- 11. It is the ability to differentiate two structures or organelles lying close
- 12. (a) A cell is structurally and physiologically modified in order to perform a particular function.
 - (b) (i) Presence of dendrites to receive impulses
 - (ii) Presence of chloroplasts to trap sunlight
 - (iii) Elongated and no cuticles in order to absorb water
 - (iv) Biconcave shape to increase surface area for diffusion of oxygen/haemoglobin.
- 13. 1 mm = 1000μ m

(iii)

specimen.

$$3.5 \text{ mm} = 3500 \mu\text{m}$$

$$10 \text{ cells} = 3500 \ \mu\text{m}$$

$$1 \text{ cell} = 3500 \ \mu\text{m}$$

10

$$1 \text{ cell } = 350 \ \mu\text{m}$$

- 14. (i) Made of several specialized cells grouped together and perform particular function.
 - (ii) Made of a group of specialized tissues grouped together performing a particular function
 - (iii) It is made of several organs that perform a particular function.