



CHEMISTRY ONLINE
— **TUITION** —

Phone: +442081445350

www.chemistryonlinetuition.com

Email: asherrana@chemistryonlinetuition.com

BIOLOGY

FOUNDATIONS IN BIOLOGY

Level & Board	OCR (A-LEVEL)
TOPIC:	CELL STRUCTURE
PAPER TYPE:	SOLUTION - 1
TOTAL QUESTIONS	9
TOTAL MARKS	/22

ChemistryOnlineTuition Ltd reserves the right to take legal action against any individual/ company/organization involved in copyright abuse.

Cell Structure - 1

1.

(a) **C**: Only 2 and 3

2.

(a) **D**: is made of rRNA and protein

3.

(a) **D**: ribosomes

4.

(a) **B**: synthesis of RNA

5.

(a) **B** because plasmodesma are not visible with a light microscope sieve tube elements are angular

(b) In microscopy, the term “resolution” is used to describe the ability of a microscope to distinguish details of a specimen or sample. In other words, the minimum distance between 2 distinct points of a specimen where they can still be seen by the observer or microscope camera as separate entities.

(c) Nile blue to increase contrast / to make nuclei visible / to show no nuclei in sieve tubes

6.

(a)

X: cellulose cell wall

Y: cell surface membrane / plasma membrane

Z: vacuole membrane / tonoplast

(b) sucrose solution

I am Sorry !!!!!

7.

(a) A, C and F

8.

(a)

Statement about onion root cells	True	False
contain chloroplasts		✓
contain mitochondria	✓	
contain 70S ribosomes in cytoplasm		✓
have pili		✓
have cellulose cell walls	✓	

9.

(a) Erythrocyte

(b) immunity / immune system / immune response

I am Sorry !!!!!

