



**CHEMISTRY ONLINE**  
— **TUITION** —

Phone: +442081445350

[www.chemistryonlinetuition.com](http://www.chemistryonlinetuition.com)

Email: [asherrana@chemistryonlinetuition.com](mailto:asherrana@chemistryonlinetuition.com)

# BIOLOGY

## FOUNDATIONS IN BIOLOGY

Level & Board	OCR (A-LEVEL)
TOPIC:	CELL STRUCTURE
PAPER TYPE:	SOLUTION - 5
TOTAL QUESTIONS	09
TOTAL MARKS	/22

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

## Cell Structure - 5

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

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

CHEMISTRY ONLINE  
— TUITION —

I am Sorry !!!!!



**DR. ASHAR RANA**



- Founder & CEO of Chemistry Online Tuition Ltd.
- Tutoring students in UK and worldwide since 2008
- Chemistry, Physics, and Math's Tutor

---

## CONTACT INFORMATION FOR CHEMISTRY ONLINE TUITION

- UK Contact: 02081445350
- International Phone/WhatsApp: 00442081445350
- Website: [www.chemistryonlinetuition.com](http://www.chemistryonlinetuition.com)
- Email: [asherrana@chemistryonlinetuition.com](mailto:asherrana@chemistryonlinetuition.com)
- Address: 210-Old Brompton Road, London SW5 OBS, UK