

Phone: +442081445350

www.chemistryonlinetuition.com

Email: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	

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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.

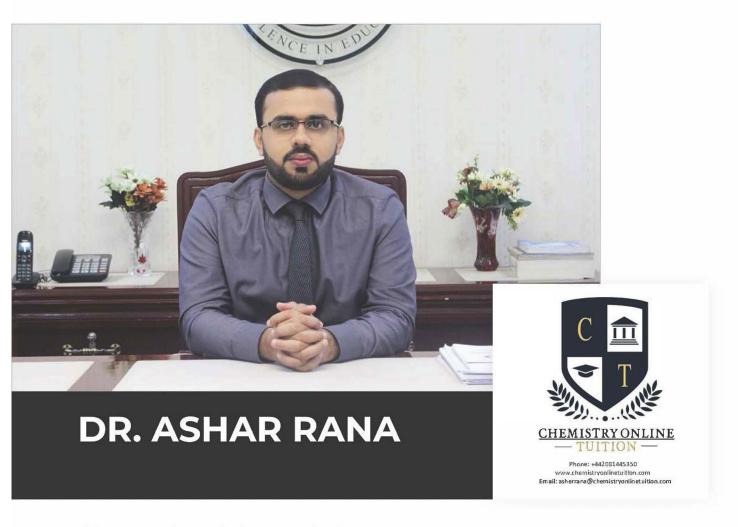
(a)

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





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CONTACT INFORMATION FOR CHEMISTRY ONLINE TUITION

- · UK Contact: 02081445350
- · International Phone/WhatsApp: 00442081445350
- · Website: www.chemistryonlinetuition.com
- · Email: asherrana@chemistryonlinetuition.com
- · Address: 210-Old Brompton Road, London SW5 OBS, UK