



CHEMISTRY ONLINE
— **TUITION** —

Phone: +442081445350

www.chemistryonlinetuition.com

Email: asherrana@chemistryonlinetuition.com

BIOLOGY

CELLS

| | |
|-----------------|-----------------------------|
| Level & Board | AQA (A-LEVEL) |
| TOPIC: | CELL STRUCTURE & MICROSCOPY |
| PAPER TYPE: | SOLUTION - 2 |
| TOTAL QUESTIONS | 6 |
| TOTAL MARKS | 31 |

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

Cell Structure and Microscopy MS - 2

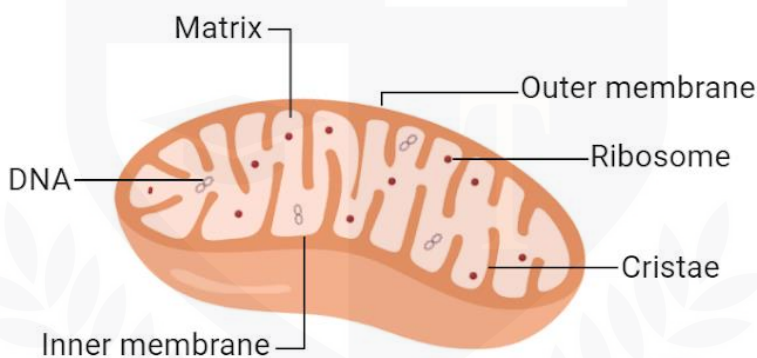
1.

(a)

| Cell wall component | Plants | Algae | Fungi | Prokaryotes |
|---------------------|--------|-------|-------|-------------|
| Cellulose | ✓ | ✓ | | |
| Murein | | | | ✓ |
| Chitin | | | ✓ | |

2.

(a)



3.

(a)

W: (cell surface) membrane

X: Cell Wall

Y: Capsule

Z: Flagellum

I am Sorry !!!!!

(b)

W: Phospholipids

X: Murein / glycoprotein

(c) Binary fission

4.

(a)

B

A

E

5.

(a) 40 μm

(b)

Type of microscope: Scanning Electron Microscope (SEM)

Evidence: 3D image

6.

(a)

1. TEM use electrons and optical use light
2. TEM allows a greater resolution
3. so with TEM smaller organelles can be observed
4. TEM can only view dead specimens whereas optical can view life specimens.
5. TEM does not show color and optical can
6. TEM required thinner specimens
7. TEM requires more complex preparation
8. TEM focusses using magnets and optical uses lenses



DR. ASHAR RANA
M.B.B.S / MS. CHEMISTRY



Phone: +442081445350
www.chemistryonlinetuition.com
Email: asherrana@chemistryonlinetuition.com

- Founder & CEO of Chemistry Online Tuition Ltd.
- Completed Medicine (M.B.B.S) in 2007
- Tutoring students in UK and worldwide since 2008
- CIE & EDEXCEL Examiner since 2015
- Chemistry, Physics, Math's and Biology Tutor

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