



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

**Phone:** +442081445350

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

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

# BIOLOGY

## BIOLOGICAL MOLECULES

<b>LEVEL &amp; BOARD:</b>	AQA (A - LEVEL)
<b>TOPIC:</b>	Inorganic Ions
<b>PAPER TYPE:</b>	QUESTION PAPER
<b>TOTAL QUESTIONS:</b>	03
<b>TOTAL MARKS:</b>	37





.....  
.....  
.....  
.....  
.....  
.....  
.....

2. The table below provides details on two different types of medications.

Name of medicine	Mass of medicine in one tablet / mg	Maximum dose of medicine an adult is allowed	Mass of sodium in one tablet / g
Aspirin	300	0.6 g every 4 hours	0.15
Paracetamol	500	1.0 g every 6 hours	0.43

(a) The data in the table above were examined by a journalist. She offered the if an adult takes the maximum number of tablets permitted for either medication, they will consume more sodium than is recommended for daily consumption. For an adult human, 2.4 g of sodium is the recommended daily amount.

Are both of the medications listed in the above table covered by the journalist's claim?

Give your calculations. (2)

CHEMISTRY ONLINE  
— TUITION —

I am Sorry !!!!!

.....  
.....

.....  
.....  
Doctors looked at the relationship between hypertension (high blood pressure) and medications with high salt content.

They examined the patients' medical records. Of these patients, 1 292 337 had taken medications with high salt contents. A patient from the control group was paired with every one of these patients.

**(b)** Give one element that should have been different and two factors that should have been the same for each pair of patients. **(2)**

Same factor 1.....

Same factor 2 .....

Different factor .....

**(c)** Doctors discovered that:

- there were 7.18 times fewer control individuals with hypertension
- (4.73%) than there were among patients who had taken medications with high salt contents.

Determine how many of the control patients had high blood pressure.

Demonstrate your work.

CHEMISTRY ONLINE  
— TUITION —

I am Sorry !!!!!





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



**CHEMISTRY ONLINE**  
**TUITION**

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**

I am Sorry !!!

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

I am Sorry !!!!!