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# Biology

### General Instructions

- Reading time – 5 minutes
- Working time – 3 hours
- Write using black pen
- Draw diagrams using pencil
- NESA approved calculators may be used
- Write your Student ID at the bottom of this page and at the top of page 9

Total marks:  
100

Section I — 20 marks (pages 2-8)

- Attempt Questions 1–20
- Allow about 35 minutes for this section

Section II — 80 marks (pages 9-22 )

- Attempt Questions 21–32
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# Past Hsc Trial Papers Biology

**Rachel S Tattersall**



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that will set health care on the right track keep people healthy by preventing disease before it starts and personalize the treatment of individuals precisely based on their specific profile With descriptions of the pioneering work undertaken at Stanford Medicine complemented by fascinating case studies of innovations from entities including the Chan Zuckerberg Biohub GRAIL and Impossible Foods Minor and Rees present a dynamic vision for the future of individual health and health care Youll see how tools from smartphone technology to genome sequencing to routine blood tests are helping avert illness and promote health And you ll learn about the promising progress already underway in bringing greater precision to the process of predicting preventing and treating a range of conditions including allergies mental illness preterm birth cancer stroke and autism The book highlights how biomedical advances are dramatically improving our ability to treat and cure complex diseases while emphasizing the need to devote more attention to social behavioral and environmental factors that are often the primary determinants of health The authors explore thought provoking topics including The unlikely role of Google Glass in treating autism How gene editing can advance precision in treating disease What medicine can learn from aviation liHow digital tools can contribute to health and innovation Discovering Precision Health showcases entirely new ways of thinking about health and health care and can help empower us to lead healthier lives *HSC Biology* Brendan Atkins,2004

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web  $\det A B = \det A \det B$  if  $A$  is invertible then  $\det A^{-1} = \frac{1}{\det A}$  solution problems let  $A = \begin{bmatrix} 8 & 1 & 6 & 3 & 5 & 7 & 4 & 9 & 2 \end{bmatrix}$  notice that  $A$  contains every integer from 1 to 9 and that the sums of each row column and diagonal of  $A$  are equal such a grid is sometimes called a

magic square compute the determinant of a

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$$\begin{bmatrix} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 & 3 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 & 1 \end{bmatrix}$$
 a  $2 \times 10$  matrix  
problem 2

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows  $\begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{bmatrix}$

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