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General Certificate of Education Ordinary Level

**COMBINED SCIENCE**

**4003/1**

**PAPER 1 Multiple Choice**

**SPECIMEN PAPER 2018**

**1 hour**

Additional materials:  
Multiple Choice answer sheet  
Soft clean eraser  
Soft pencil (type B or HB is recommended.)  
Calculator (Optional)

**TIME** 1 hour

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Do **not** open this booklet until you are told to do so.

Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

Read very carefully the instructions on the answer sheet.

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a find the eigen values and the corresponding eigen vectors for the following matrix  $\begin{bmatrix} 6 & 4 & 0 & 1 \\ a & 2 & 1 & 0 \\ 2 & 0 & 2 & 0 \\ 1 & b & \end{bmatrix}$  verify cayley

hemilton theorem for a  $\begin{bmatrix} 1 & 1 & 0 & 2 \\ 3 & 2 & 2 & 0 \\ 1 & \end{bmatrix}$  and use it

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$x \in [0, 2]$  c obtain constant term and coefficients of the first sine and cosine terms in the fourier expansion of  $y$  as given in the following table

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web excavation and backfilling for drainage works 3 2 1 description this work shall consist of excavation for the construction

of surface drains subsoil drains cast in site box culverts and other drainage structures pipe culverts unless otherwise provided in the relevant works specification and shall include furnishing placing compacting

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web 5 1 surface drainage all road design must incorporate features or elements to drain water off the road without causing siltation and erosion the road drainage is designed so that it will produce the desired velocity of flow that is high enough to prevent silting and lower the erosion potential low water flow velocity

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