



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Scrúdú na hArdteistiméireachta 2019
Leaving Certificate Examination 2019

Biology, Chemistry, and Physics Answerbook
Freagarleabhar le haghaidh na Bitheolaíochta, na Ceimice agus na Fisice

For the candidate / Don iarrthóir:

Shade in fully the circle for the subject, the level, and the language (English or Irish) that you are answering through.

Scáthaigh an ciorcal go hiomlán le haghaidh an ábhair, an leibhéil, agus na teanga (Béarla nó Gaeilge) trína bhfreagróidh tú.

Subject Ábhar	Level Leibhéal	Answered through Freagraíodh trí
Biology Bitheolaíocht <input type="radio"/>	Higher Ardleibhéal <input type="radio"/>	English <input type="radio"/>
Chemistry Ceimic <input type="radio"/>	Ordinary Gnáthleibhéal <input type="radio"/>	Gaeilge <input type="radio"/>
Physics Fisic <input type="radio"/>		

Examination Number / Scrúduimhir

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Centre Stamp / Stampa an Ionaid

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Instructions

Write your Examination Number in the box on the front cover. Shade in fully the circle on the front cover for the subject, the level, and the language (English or Irish) that you are answering through.

Write your answers in blue or black pen. You may use pencil for graphs and diagrams only.

Write all answers into the spaces provided in this answerbook. This answerbook will be scanned and your work will be presented to an examiner on screen. Anything that you write outside of the answer areas may not be seen by the examiner.

Start each question on a new page. Write the question number in the box at the top of each page. Use the left-hand column to label each part, as shown below. Graph paper is provided on pages 5, 9, 13, 17, 21, and 25 of this answerbook. You do not need to use all of the pages in this answerbook.

You may ask the superintendent for more paper. Label any extra work clearly with the question number and part.

PART CUID	3	← QUESTION CEIST	Start each question on a new page Cuir tús le gach ceist ar leathanach nua
(a)			
(b) (i)			
(b) (ii)			

Treoracha

Scríobh do Scrúduimhir sa bhosca ar an gclúdach tosaigh. Scáthaigh go hiomlán an ciorcal ar an gclúdach tosaigh le haghaidh an ábhair, an leibhéil, agus na teanga (Béarla nó Gaeilge) trína bhfreagróidh tú.

Scríobh do chuid freagraí le peann i ndúch gorm nó dubh. Ní ceadmhach duit peann luaidhe a úsáid ach amháin le haghaidh graf agus léaráidí.

Scríobh na freagraí go léir sna spásanna atá ann dóibh sa fhreagarleabhar seo. Déanfar an freagarleabhar seo a scanadh agus is ar scáileán a chuirfear do chuid oibre i láthair an scrúdaitheora. Tá an baol ann nach bhfeicfidh an scrúdaitheoir aon ní a scríobhfaidh tú taobh amuigh de spásanna na bhfreagraí.

Cuir tús le gach ceist ar leathanach nua. Scríobh uimhir na ceiste sa bhosca ar bharr gach leathanaigh. Úsáid an colún ar thaobh na láimhe clé chun gach cuid a lipéadú, mar a thaispeántar thuas. Cuirtear grafpháipéar ar fáil ar leathanaigh 5, 9, 13, 17, 21, agus 25 den fhreagarleabhar seo. Ní gá duit gach leathanach sa fhreagarleabhar seo a úsáid.

Féadfaidh tú páipéar breise a iarraidh ar an bhfeitheoir. Lipéadaigh aon obair bhreise go soiléir le huimhir na ceiste agus leis an gcuid den cheist.

PART
CUID



QUESTION
CEIST

Start each question on a new page
Cuir tús le gach ceist ar leathanach nua

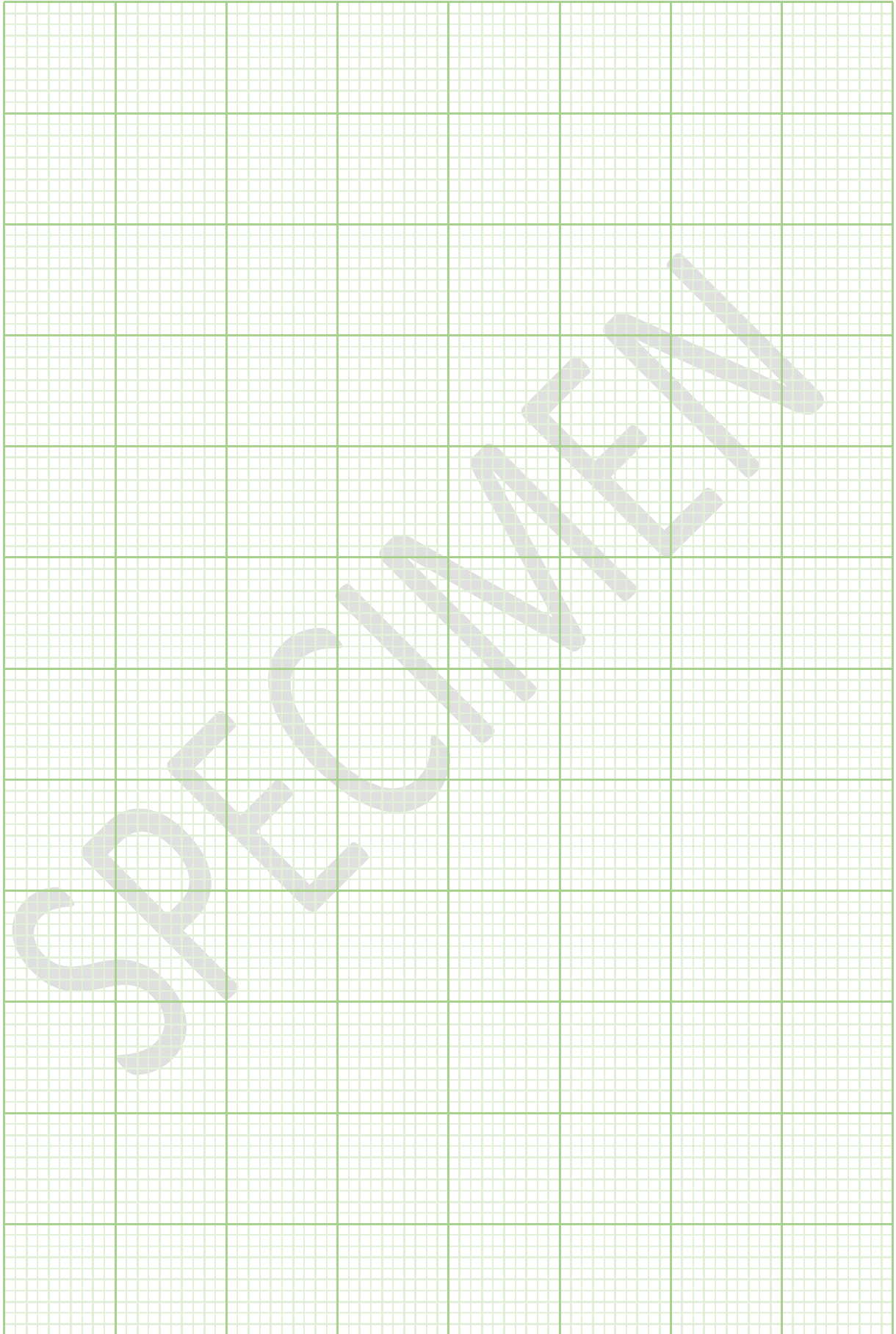
A large rectangular area with horizontal blue lines for writing, intended for answers to questions. A large, light grey watermark reading "SPECIMEN" is diagonally placed across the page.

PART
CUID



QUESTION
CEIST

Start each question on a new page
Cuir tús le gach ceist ar leathanach nua



PART
CUID



QUESTION
CEIST

Start each question on a new page
Cuir tús le gach ceist ar leathanach nua

Lined writing area for questions.

SPECIMEN

PART
CUID



QUESTION
CEIST

Start each question on a new page
Cuir tús le gach ceist ar leathanach nua

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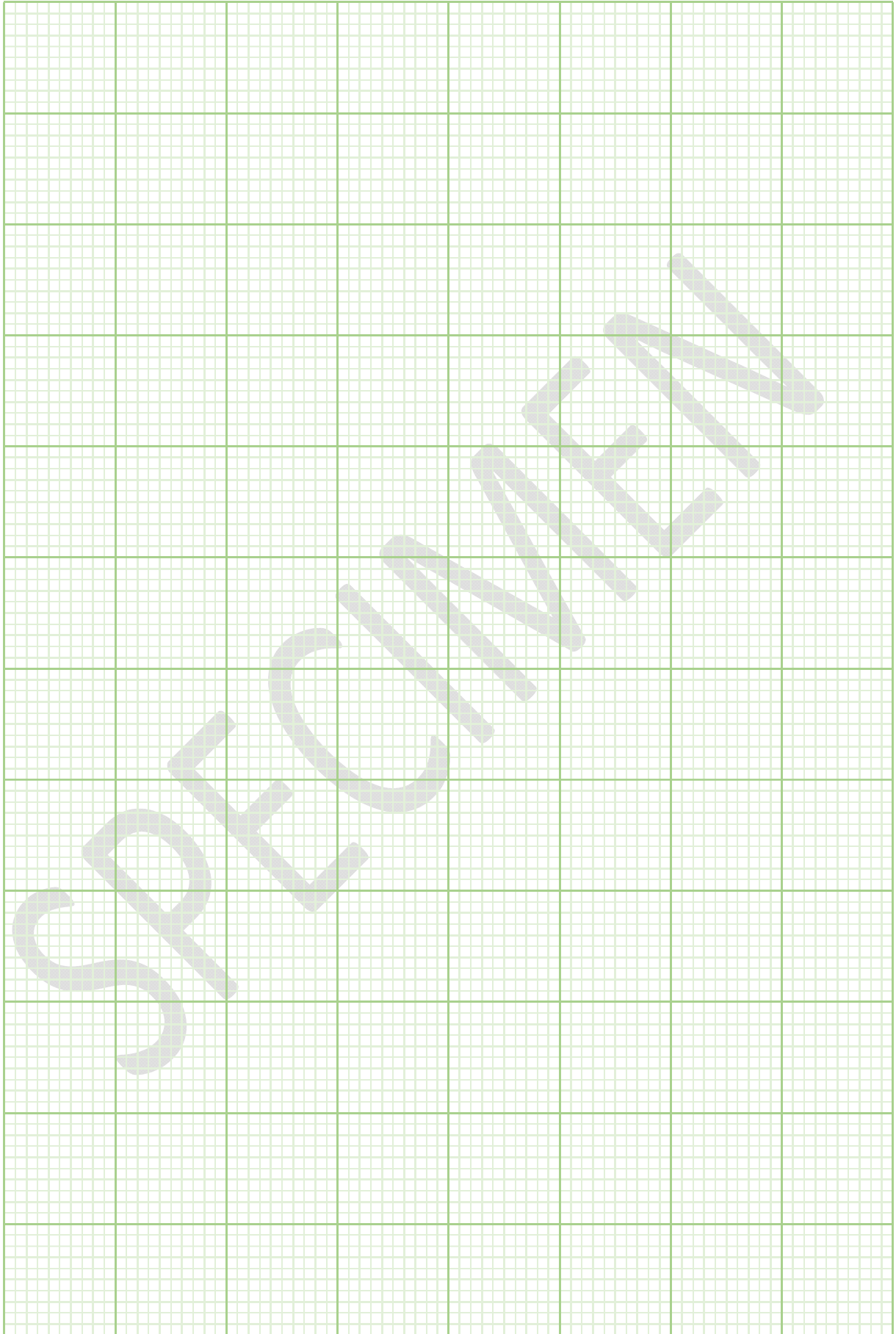
SPECIMEN

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SPECIMEN

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PART CUID	

SPECIMEN

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SPECIMEN

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Handwriting practice area with horizontal blue lines. A large watermark 'SPECIMEN' is diagonally across the page.

PART
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QUESTION
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Start each question on a new page
Cuir tús le gach ceist ar leathanach nua

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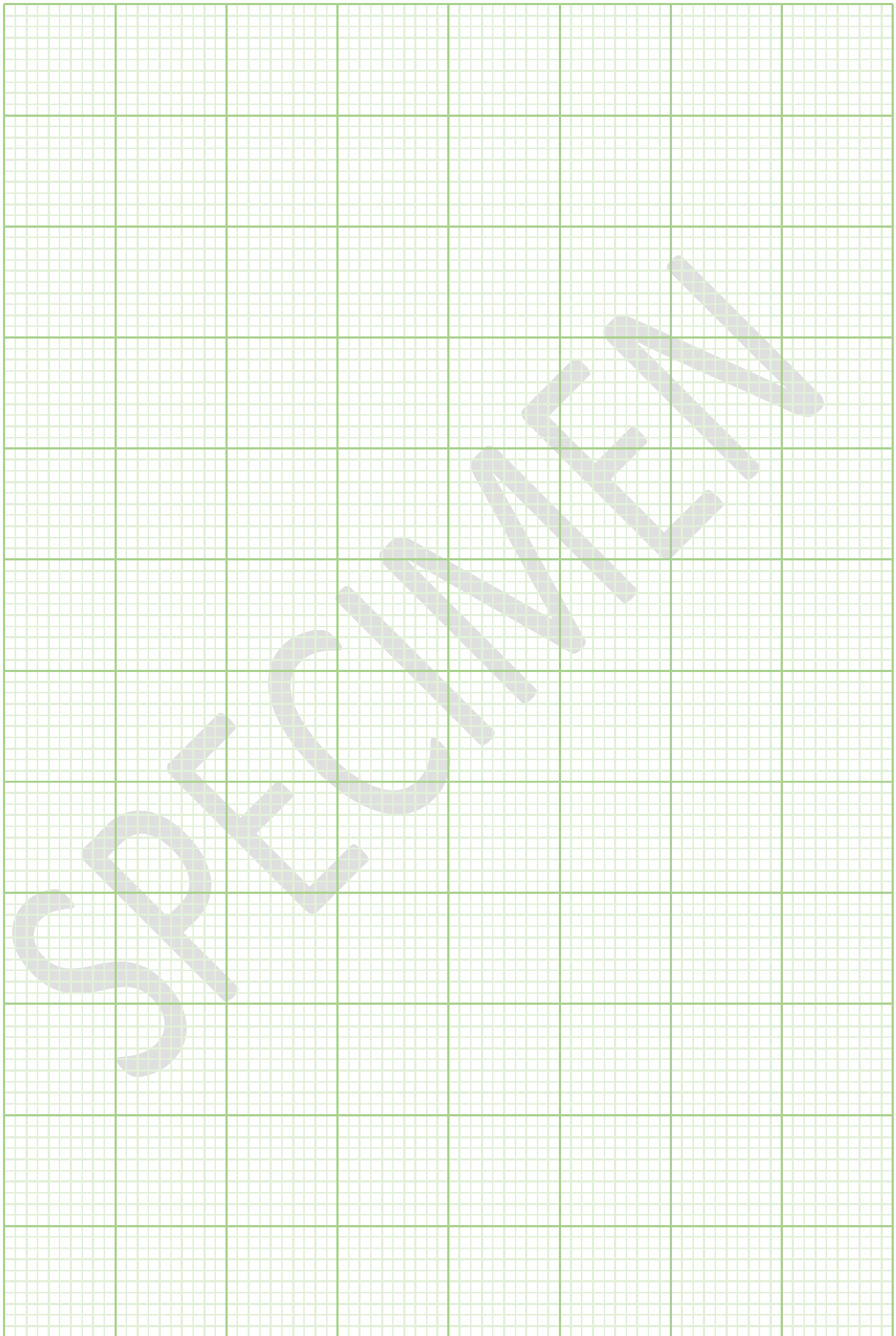
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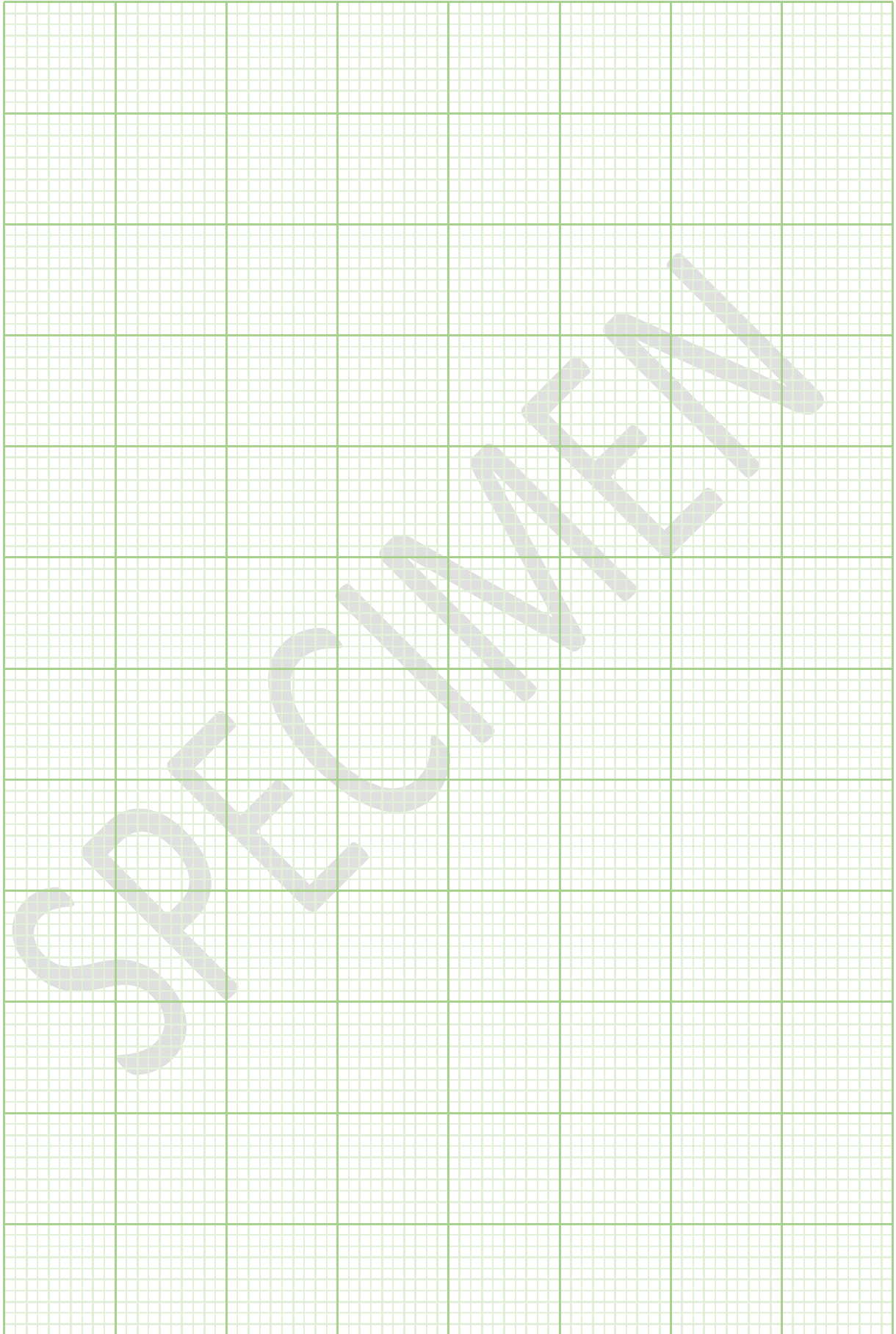
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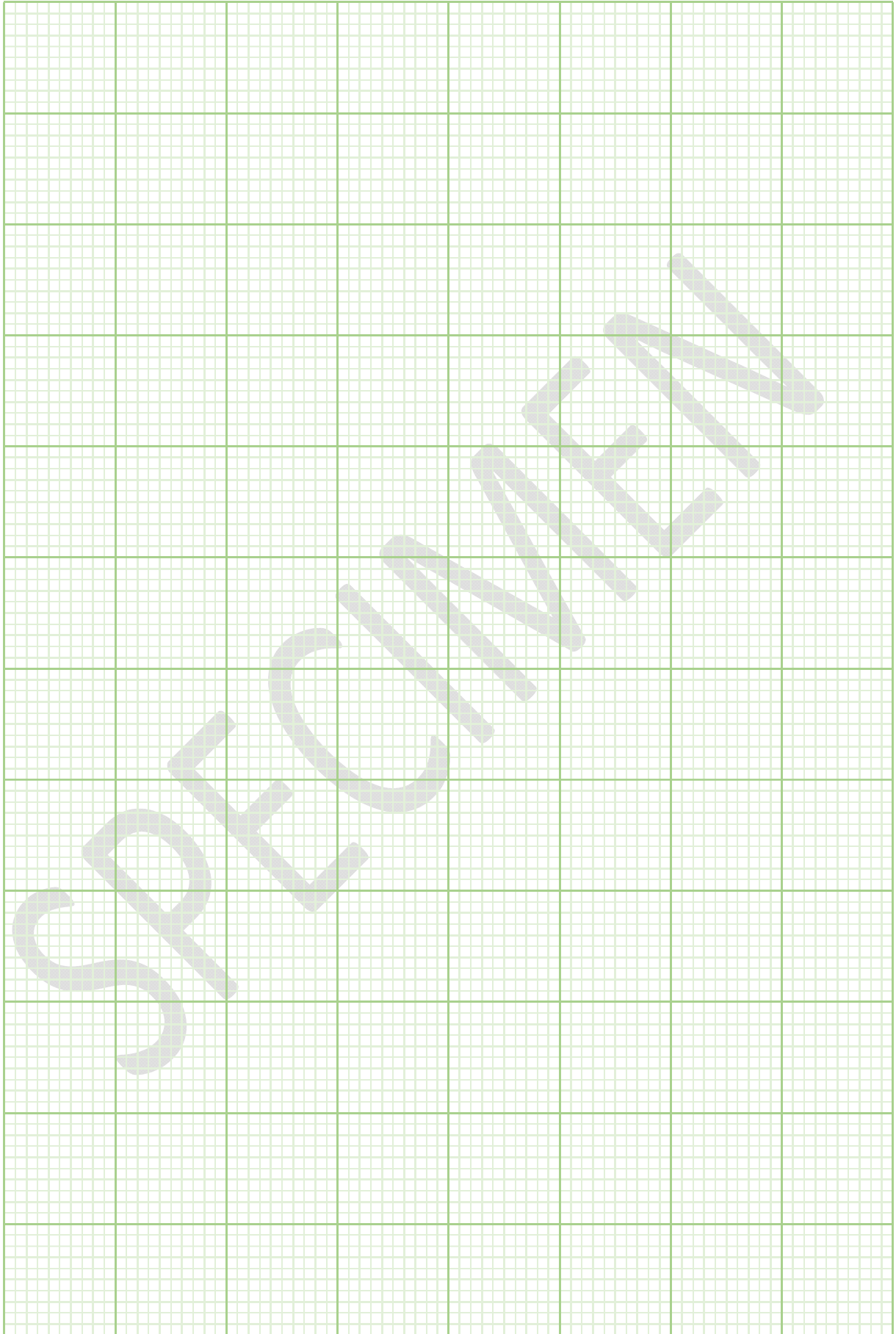


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SPECIMEN

