

# 2025 CSSA Trial HSC (Sample Responses)

## Section I

20 marks

Questions 1–20 (1 mark each)

Question	Answer	Marking Summary	Targeted Performance Band
1	C	PS 12.13	3–5
2	D	PS 12.14	3–5
3	B	PS 12.14	3–5
4	C	PS 12.14, PS 12.1	3–5
5	C	PS 12.1, PS 12.2	3–5
6	B	PS 12.13	3–5
7	B	PS 12.13, PS 12.1	3–5
8	A	PS 12.14	3–5
9	A	PS 12.14	3–5
10	D	PS 12.1, PS 12.2	3–5
11	B	PS 12.13, PS 12.4	3–5
12	C	PS 12.14	3–5
13	A	PS 12.13, PS 12.4	3–5
14	B	PS 12.13	3–5
15	A	PS 12.13	3–5
16	B	PS 12.13	3–5
17	A	PS 12.14, PS 12.3	3–5
18	B	PS 12.13, PS 12.4	3–5
19	C	PS 12.13, PS 12.4	3–5
20	C	PS 12.13, PS 12.4	3–5

## Question 21 (a) (1 mark)

Into the page (using Right Hand Grip Rule on both current carrying wires)

## Question 21 (b) (2 marks)

$$\frac{F}{l} = \frac{\mu_0 I_1 I_2}{2\pi r}$$

$$0.0138 = \frac{4\pi \times 10^{-7} \times 14.4 \times 14.4}{2\pi r}$$

$$0.0138r = 4.1472 \times 10^{-5}$$

$$r = 3.005 \times 10^{-3} \text{ m}$$

## Question 21 (c) (3 marks)

When the switch is closed, current is allowed to flow through the parallel conductors. The wire at the top will have a current going to the right and the one on the force meter will have a current going to the left. The current-carrying conductors produce a surrounding magnetic field. The field from the top wire will create a downward force on the bottom wire. (Using right hand push rule)

The lower wire will experience a force downwards, increasing the reading on the force meter.

## Question 22 (a) (2 marks)

# 13 Physics Cssa Trial

**G Thomas**



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**Resources in Education** ,1975      *Marquis International Who's who in Optical Science and Engineering* ,1985

**Soils and Fertilizers** ,1979-07      **Climate Change and Food Security** David B. Lobell,Marshall Burke,2009-12-21

Roughly a billion people around the world continue to live in state of chronic hunger and food insecurity Unfortunately efforts to improve their livelihoods must now unfold in the context of a rapidly changing climate in which warming temperatures and changing rainfall regimes could threaten the basic productivity of the agricultural systems on which most of the world s poor directly depend But whether climate change represents a minor impediment or an existential threat to development is an area of substantial controversy with different conclusions wrought from different methodologies and based on different data This book aims to resolve some of the controversy by exploring and comparing the different methodologies and data that scientists use to understand climate s effects on food security In explains the nature of the climate threat the ways in which crops and farmers might respond and the potential role for public and private investment to help agriculture adapt to a warmer world This broader understanding should prove useful to both scientists charged with quantifying climate threats and policy makers responsible for crucial decisions about how to respond The book is especially suitable as a companion to an interdisciplinary undergraduate or graduate level class      *American Men and Women of Science* ,1971

**Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1970      National Union Catalog ,1969 Includes entries for maps and atlases      *Research Awards Index* ,      *The Journal of the Acoustical Society of America* ,      *Who's who in Society* ,1986      **The National Union Catalogs, 1963-** ,1964      **Translations**

**Register-index** ,1976      Chemical Engineering Progress ,1950      Proceedings - Soil Science Society of America Soil Science Society of America,1963      **Strathmore's Who's Who, 1998-1999** ,1999      **Who's who in Technology** ,1986 Fifth ed published in 7 vols Who s who in biotechnology Who s who in chemistry Who s who in civil engineering earth sciences Who s who in electronics Who s who in mechanical engineering Who s who in physics and Master index of expertise master index of names      **Who's who in Technology Today: Chemistry and biotechnology** ,1984      Who's who in Technology: Who's who in biotechnology ,1986      **Who's who in the South and Southwest** ,1976 Includes names from the States of Alabama Arkansas the District of Columbia Florida Georgia Kentucky Louisiana Mississippi North Carolina Oklahoma South Carolina Tennessee Texas and Virginia and Puerto Rico and the Virgin Islands      **Who's who in Technology Today** ,1980

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