



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE BUILDING AND STRUCTURAL SURVEYING N5

(8060045)

**1 February 2022 (X-paper)
09:00–12:00**

Nonprogrammable calculators may be used.

This question paper consists of 5 pages, 1 answer sheet and 1 formula sheet.

020Q1E2201

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
BUILDING AND STRUCTURAL SURVEYING N5
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
 2. Read all the questions carefully.
 3. Number the answers according to the numbering system used in this question paper.
 4. Write neatly and legibly.
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SECTION A

QUESTION 1

Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.1–1.5) in the ANSWER BOOK.

- 1.1 Levelling is the process of determining the difference in distance between two or more points. ◆
- 1.2 Foresights to unknown points are always positive.
- 1.3 Backsights to known points are always negative.
- 1.4 A vertical plane contains the plumb line. ◆
- 1.5 In plane surveying the level surface and the horizontal surface are assumed to coincide.

(5 × 1)

[5]

QUESTION 2

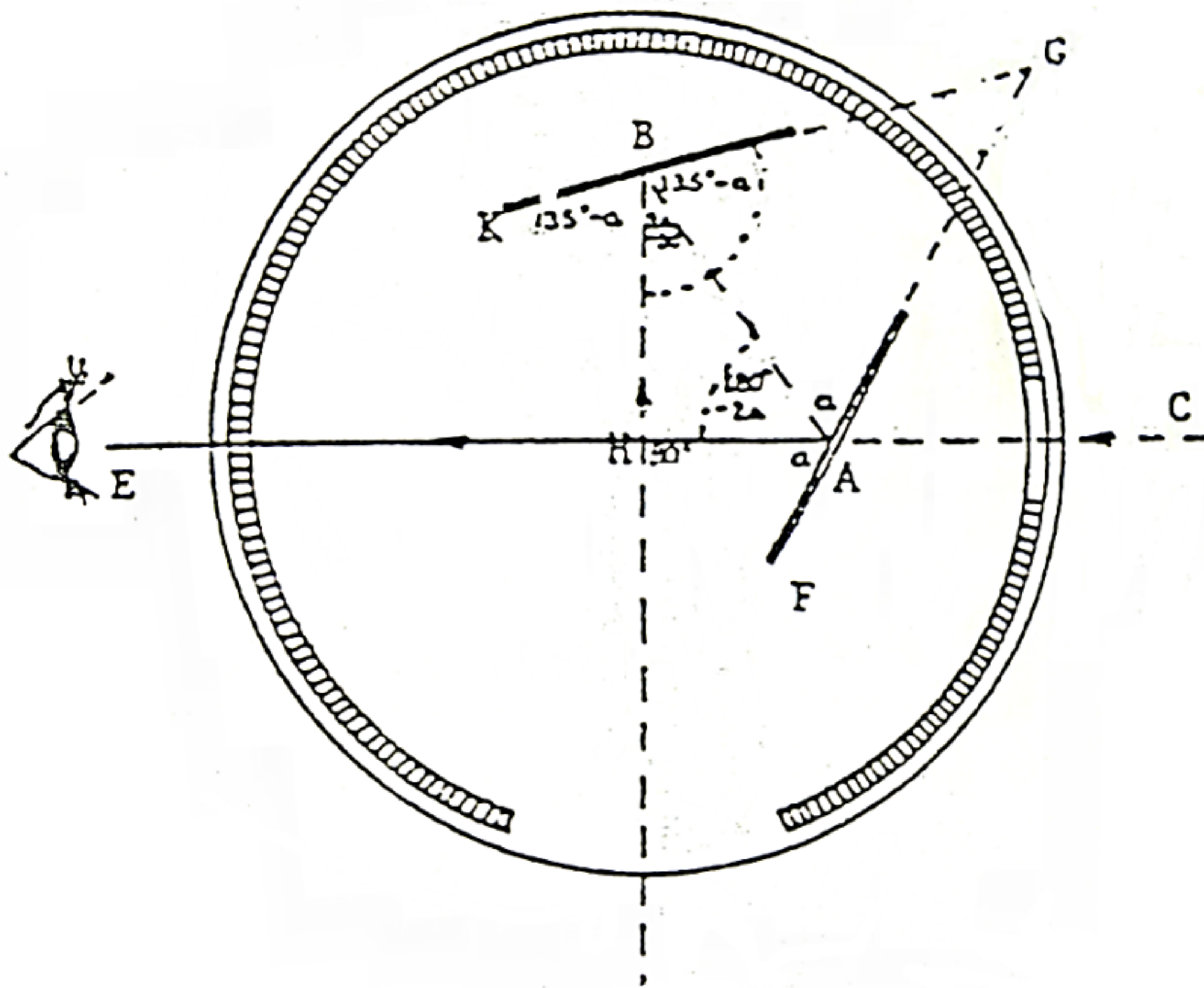


FIGURE 1

Complete the following paragraph by referring to the instrument in FIGURE 1 (above). Write only the missing word or words next to the question number (2.1–2.10) in the ANSWER BOOK. ◆

It is a compact hand (2.1) ... for setting out (2.2) ... It is based on the principle that a ray of light (2.3) ... successively from two surfaces, undergoes a (2.4) ... of twice the angle between the reflecting (2.5) In the instrument the surfaces are placed exactly at (2.6) ... to each other. Mirror A is half (2.7) ... To an eye placed at E objects at C are (2.8) ... through the (2.9) ... half of A. The name of the instrument is (2.10) ... (10 × 1)

[10]