

43. To find the planes of defilade for a work.

(a) To be defiladed from one hill.

(b) To be defiladed from two hills.

Fair Notes—On the whole of the above subjects.

Plates—The following is a test of the plates :—

I. Problems, various.

II. Problems, various.

III. Contoured work.

IV. Problems relating to ground.

Exercises—Numerous problems to be drawn in pencil, a written explanation of process to be given.

Subjects for examination. December—From beginning to problem 36 inclusive.

March—the whole course. June—The whole course and revision of obligatory course of geometrical drawing.

	Marks.
For work during term.....	200
For examinations—	
December.....	50
March.....	50
June (100 GD + 100 GD).....	200
Total.....	500

DESCRIPTIVE GEOMETRY—(VOLUNTARY.)

Subjects—Definitions of terms required by two-plane method. (Clarke, p. 13, 16 and 21.)

Notation. (Clarke, p. 13 and notes.)

Theorems. (Clarke, theorems 1 to 26.)

Fundamental problems—Adaption of the two-plane method to the fundamental problems given in obligatory course. The following additional problems will be adapted to both methods:—

44. To find the conditions that a straight line passing through a given point in a given straight line may make a given angle with this straight line.

45. To find the conditions that a straight line passing through a given point may make a given angle with a given plane.

46. To find the condition that a plane passing through a given point in a given straight line may have a given inclination to this straight line.

47. To find the condition that a plane may pass through a given point and make a given angle with a given plane.

48. To find the horizontal and vertical traces of a cone the position of whose axis is given. (This problem is required for the solution of problems 44 to 48.)

Application of the above problems to the solution of problems on straight lines and planes and the projection of plane figures. (Clarke, chapters II and III.)

Translation of Indice method into two-plane method and *vice versa*. (Notes.)

Fair Notes—Of such matter as is not given in the text-book.

Plates—The following is a list of the plates :

V. Problems relating to straight lines and planes.

VI. Problems relating to plane rectilineal figures.

VII. Problems relating to plane curved figures.

Exercises—Various problems worked out in pencil.

Subjects for each Examination.—There will only be one examination, in June, comprising the whole of the course.

	Marks.
For work during term.....	500
For examination, June.....	500
Total.....	1,000