

GOVT. COLLEGE OF ENGG. AMRAVATI
CIVIL ENGG. DEPARTMENT

Class Test No. 1 Sub: Surveying Date: 29/01/16 Time: One Hour Max.Marks: 15

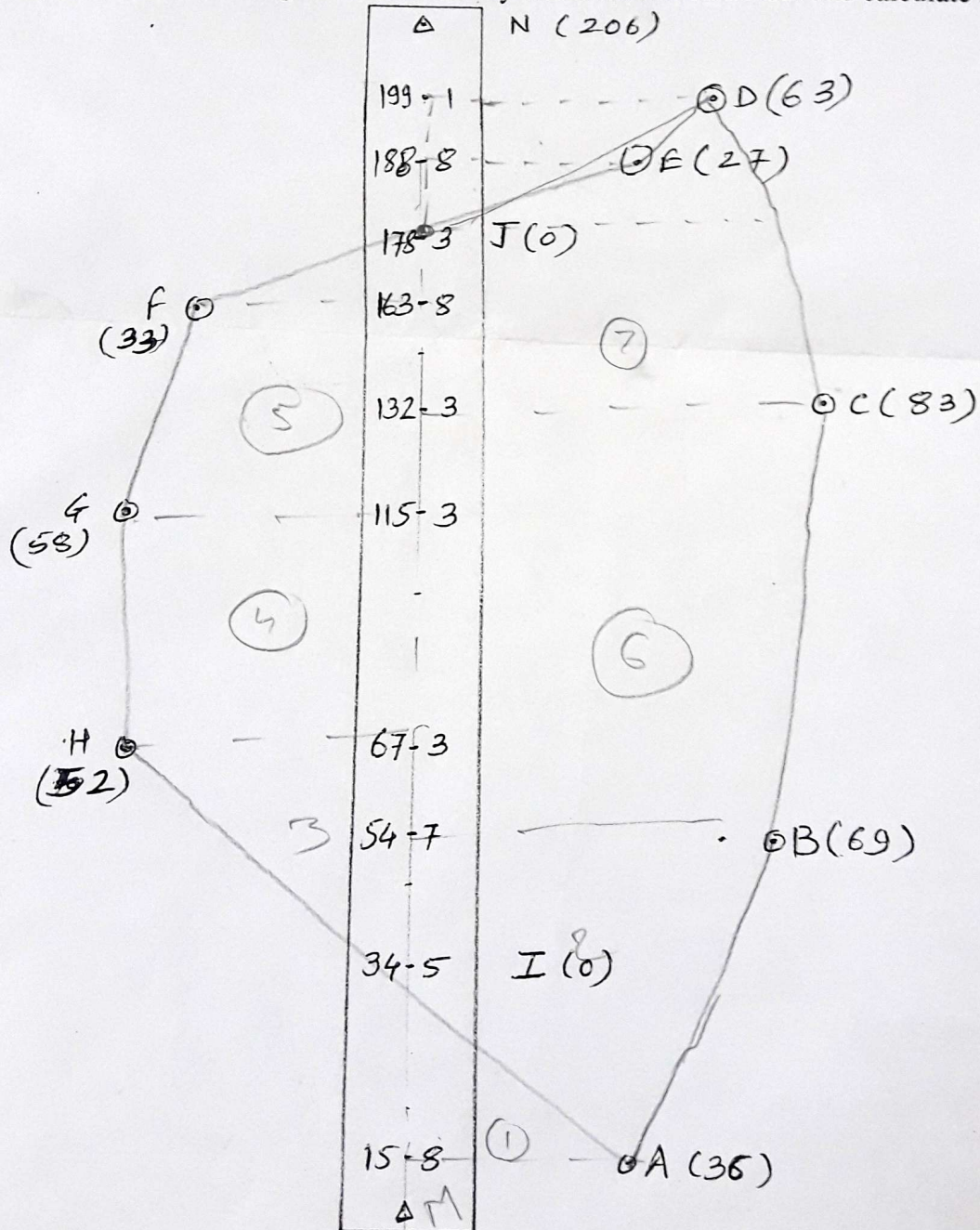
Q No.1: (a) Explain each in detail the principles of surveying. (03) Define the terms Swing and oblique Offsets with the help of sketches. (02)

OR

Explain the necessity of reference sketches. (1) State the different points to be considered While making entry in field book along with the sketch of field book page showing details of objects.(4)

(b) Draw the sectional view of Prismatic compass and show the different components along with their functions. (05)

(c) Plot the following cross staff survey of a field ABCDEFGH and calculate its area. (05)



(All dimensions are in m)

FIG - (1)

$$C_t = \alpha (T_m - T_{\infty})$$

$$C_A = \frac{W}{A}$$

$$C_s = \frac{W}{A}$$

$$C_1 = \frac{P_m \cdot A \cdot h}{A \cdot k}$$

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