# B.Tech II Year II Semester (R13) Supplementary Examinations December/January 2015/2016 SURVEYING - II 

(Civil Engineering)
Time: 3 hours
Max. Marks: 70
PART - A
(Compulsory Question)

1 Answer the following: (10 $\times 02=20$ Marks $)$
(a) What is the procedure of levelling by foot screws?
(b) What do you mean by the term ideal triangle?
(c) What is contour gradient?
(d) What is the purpose of a direct reading tacheometer?
(e) What is a deflection angle?
(f) Why the face left and face right observations are taken?
(g) What is the principle of Tacheometry?
(h) The staff readings on $A$ and $B$ are 1.735 and 0.965 respectively. Which point is higher?
(i) What is the degree of a curve?
(j) What do you mean by Triangulation?

PART - B
(Answer all five units, $5 \times 10=50$ Marks)

## UNIT - I

Obtain an expression for the difference in level between two points by reciprocal vertical angle readings from two stations. Heights of instruments and targets should not be ignored.

## OR

Obtain an expression for the difference of level between two points $A$ and $B$, a considerable distance apart, $B$ being higher, by vertical angle readings from the point $A$. Take into account the height of the instrument at $A$ and the height of the target at B . What is the assumption made in obtaining the equation for difference of level?

## UNIT - II

(a) Resource exploration.
(b) Environmental Information.
(c) Study of natural hazards.

