Office of the Controller of Examinations Sanothimi, Bhaktapur

Regular/Back Exam-2078, Kartik/Mangsir

Program: Diploma in Civil Engineering Full Marks: 80
Year/Part: II/I (2013) Pass Marks: 32

Subject: Surveying I Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Five questions.

- . 1. (a) What is surveying? Discuss the principle of surveying. [2+6]
 - Define accuracy and precision. Explain the sources of [2+6] error in surveying.
- 2. Explain the method of Ranging. [8]
 - b) A steel tape 30m long standardized at 20°c with a pull of 100N was used for measuring a base line. Find the correction per tape length if the temperature at time of measurement was 30°c and pull exerted was 160N. Weight of 1 cube cm of steel = 7.86gm, weight of tape = 0.8kg and E = 2.10x10⁻⁶ kg/cm², coefficient of expansion of tape per 1°c = 11.0 x 10⁻⁶.
- Differentiate between surveyor and prismatic compass. [4+4]
 Also define following terms:
 magnetic declination, local attraction.
 - b) A pond obstructs the chain line AB. Two lines AP and AQ are 50 choosen that APQ circumscribe the obstacles and PBQ are on same straight line. Find the distance AB of measurements AP=802m, AQ=100m, PB=451m and BQ=501m are given
- 4. Define temporary adjustment of level. Discuss about the [2+6] classification of direct leveling.
 - The following observation was made with a compass in case of close traverse. Calculate the interior angles and then corrected bearing of the lines.

[8]

[8]

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