SEE 2080 (214) ENGINEERING SUR EYING-I

समय : २ घण्टा

पुणांडुक : ५०

विद्याका निर्देशनका आधारमा आफ्नै शैलीमा सिर्भात्मक उत्तर विनुहोस् :

समृह 'क' (Group 'A')

तलका प्रश्नहरूको ठिक विकल्प छानी उत्तरपुस्तिकामा लेख्नुहोस्:

Choose the best alternative of the following questions and write in the $(9 \times 1 = 9)$ answer sheet:

- Surveying भनेको के हो ?
 - a. Surveying is the process of finding area of land
 - b. Surveying is the process to find the relative position of a point on or beneath the surface of the earth
 - c. Surveying is the examination of students
 - d. Surveying is the process of making map
- Surveying को मुख्य सिद्धान्त के हो ? What is the main principle of surveying?
 - a. Working from part to part

.e. Working from whole to part

b. Working from part to whole

d. Working from whole to whole

द्री मापन गर्ने उपकरण क्न चाहि हो ? Э

Which one is the accessory for distance measurement?

a. Compass

c. Ranging rod

b. Level machine

d Plane table

२० मिटरको metric chain मा कतिवटा links हुन्छन् ? 8 How many numbers of links are there in 20m metric chain?

a. 100

b. 150

c. 200

तलकामध्ये क्न चाहि उपकरण chain survey को लागि चाहिँदैन ? 4

Which of the following instrument is not required in chain survey?

a. Dumpy level

c. Chain

Ranging rod

d. Peg

Chain survey मा well-conditioned triangle को लागि हुनुपर्ने angles को range-कति हो ?

a. more than 30° and less than 120° c. less than 60° and more than 120° b. less than 30° and more than 120° d. more than 60° and less than 120°

Meridian नाप्नको लागि प्रयोग हुने उपकरण कुन हो ?

The instrument used to measure meridian is...

a. ranging rod , b. compass

c. level

d. chain

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 कुनै एक ठाउँको instrument को setup बाट लिइएको अन्तिम staff reading लाई के भनिन्छ ?

The last staff reading taken from every setup of an instrument is known

a. B.S.

c. I.S.

Jo. F.S.

d. Line of sight

९ Datum बाट माथि लिइएको निश्चित बिन्दु जसको उचाइ थाहा छ भने त्यसलाई के भनिन्छ ?

A relatively fixed point of known elevation (R.L.) above datum is called a. Line of sight b. B.S. C. Bench mark d. Datum

समूह 'ख' (Group 'B')

सबै प्रश्नहरूको छोटो उत्तर लेख्नुहोस्:

Attempt all short answer questions:

(5x5=25)

- 90. Plane surveying र geodetic surveying बिचको कुनै तीनवटा फरकहरू लेख्नुहोस्। Chain survey को सिद्धान्तलाई सफा चित्रसिहत प्रस्तुत गर्नुहोस्। Write any three differences between plane surveying and geodetic surveying. State the principle of chain surveying with neat sketch. (3+2)
- 99. Tape का प्रकारहरूलाई परिभाषित गर्नुहोस् । Datum र Reduced level भन्नाले के बुभनुहुन्छ ?

 Define any three types of tape. What do you mean by Datum and Reduced level?

 (3+2)
- 9२ PQ,QR,RS,ST र TP line को fore bearing हरू लगातार $35^030'$, $110^015'$, $210^030'$, $290^045'$ र $300^045'$ छन् भने <P, <Q, <R, <S and <T को भित्री कोणहरू पत्ता लगाउन्होस्।
- Surveyor's Compass र Prismatic compass विचका कुनै पाँचओटा फरकहरू लेख्नुहोस्। Write any five differences between surveyor's compass and prismatic compass.
- Survey मा accuracy किन आवश्यक छ ? Survey मा errors का प्रकारहरूको बारेमा छोटकरीमा व्याख्या गर्नुहोस्।
 Why accuracy is required in survey? Explain in brief about types of error in survey.
 (2+3)

समूह 'ग' (Group 'C')

सबै प्रश्नहरूको लामो उत्तर लेख्नुहोस् :

Attempt all long answer questions:

(2x8=16)

NY Level मा Adjustment किन आवश्यक छ ? Level को temporary adjustment को वारेमा छोटकरीमा व्याख्या गर्नुहोस्।

Why adjustment of level is required? Explain briefly the temporary adjustment of level. (2+6)

१६ Chain survey को suitabilities र unsuitabilities हरू के के हुन् ? Offset का प्रकारहरूलाई छोटकरीमा चित्रसहित व्याख्या गर्नुहोस्।

What are the suitabilities and unsuitabilities of chain survey? Explain briefly the different types of offset in chain survey with suitable sketch. (4+4)

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