Total No. of Printed Pages:2

SUBJECT CODE NO:- H-488
FACULTY OF SCIENCE AND TECHNOLOGY
T.E. (Civil)
Advanced Surveying
(OLD)

[Time: Two Hours]   **[Max.Marks: 40]**

Please check whether you have got the right question paper.

N.B   1. Q.No.1 and Q.No.5 are compulsory.
           2. Answer any two questions from section A and section B.
           3. Figures to right indicate the maximum marks.
           4. Assume suitable data if necessary, and state the same very clearly.

Section A

Q.1   Answer the following question: (any three)   06
        a) What is aerial photogrammetry?
        b) Scale and Distortion of the vertical photograph?

        c) Explain: - Drift and Crab.

        d) Define:-
            i)   Principal point
            ii)   Isocenter

        e) Write uses of Hydrographic surveying.

Q.2   Define relief. Derive an expression for displacement due to ground relief.   07

Q.3   Explain the principal and working of a parallax bar.   07

Q.4   A line AB measures 12.00cm on a photograph taken with a camera having a focal length of 22.5cm.   07
        The same line measures 3cm on a map drawn to scale of 1/46000. Calculate the flying height of the
        aircraft, if the average altitude is 350m.

Section B

Q.5   Answer the following question: (any three)   06
        a) Explain the basic concept of GIS?
        b) Define:-
            i)   Nadir point
            ii)   Oblique Photograph
        c) What do you understand by electromagnetic spectrum?
        d) Write down main five components of GIS?
        e) Define remote sensing. State how it differs from photogrammetry.

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Q.6 Describe the radial line method of plotting from aerial photographs. 07

Q.7 Explain in details the use of EME (electromagnetic energy) and its use in Remote Sensing Techniques? 07

Q.8 Write a note on application areas of GIS and remote sensing? 07

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