(iii) Area covered by one strip on ground

(iv) Total area covered on ground

(v) Area common between two adjacent strips on ground

D73

B. Tech. EXAMINATION, May 2019

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(CE)

CE206B

GEOMATICS ENGINEERING

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Give detail classification of maps. Explain different map numbering system. **8**

(b) Explain various laws of thermal emission and emissivity. **7**

2. (a) What is GIS ? Explain various applications of GIS in Civil Engineering. **8**

(b) What is GPS ? Explain various types of error in GPS. **7**

Unit II

3. (a) Explain idealized and real sequence of remote sensing. **8**

(b) State and explain atmospheric window and its significanc in Remote sensing. **7**

4. Explain interaction of earth surface with EMR in various regions of spectrum. **15**

Unit III

5. Write a brief note on type of sensors. **15**

6. Write a short note on Indian remote sensing program. **15**

Unit IV

7. Enumerate and explain various image interpretation elements. **15**

8. To photograph an area, 18 strips of photographs-each strip containing 32 photographs were required. The forward overlap between two consecutive photographs was 65% and the side overlap between conseutive strip of photograph was 25%. The scale of photography is 1:25,000 and the format size is 23 cm by 23 cm. Calculate : **15**

(i) Area covered by one photograph on ground

(ii) Area common between two adjacent photograph on ground