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INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech III Semester End Examinations (Regular), February – 2021

Regulation: IARE–R18

SURVEYING AND GEOMATICS

(CE)

Time: 3 Hours

Max Marks: 70

Answer any Four Questions from Part A
Answer any Five Questions from Part B

PART – A

1. List and explain various errors in levelling. [5M]
2. Explain the elements of simple curve. [5M]
3. Compare the total station surveying with the conventional surveying briefly. [5M]
4. Write a short note on flight planning and stereoscopy [5M]
5. Describe the interaction of electromagnetic radiation with earth surface. [5M]
6. List the various types of levelling and explain in detail any two. [5M]
7. Explain the various merits and demerits of total station. [5M]
8. Discuss various elements of visual image interpretation and its applications . [5M]

PART – B

9. Explain the principle of surveying and also discuss about ranging. [10M]
10. Describe the various characteristics of contours with sketches. [10M]
11. Describe the setting out a simple curve by any one method. [10M]
12. Discuss the elements of a reverse curve briefly. Explain the setting out a reverse curve. [10M]
13. Describe the various operations involved in using total station. [10M]
14. Explain the surveying using GPS and the various errors considering the accuracy. [10M]
15. Explain tilt and relief displacements with sketches. [10M]
16. Enumerate the various applications and uses of terrestrial photogrammetry. [10M]
17. Explain the interaction of electromagnetic radiation with the atmosphere with neat sketch. [10M]
18. Explain the application remote sensing data acquisition techniques in detail. [10M]

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