

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (Sem.-4)
GEOMATICS ENGINEERING

Subject Code : BTCE-401

M.Code : 56083

Date of Examination : 02-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.
4. Assume missing data.

SECTION-A

1) Answer briefly :

- a) What is angle Parallax?
- b) Explain atmospheric windows.
- c) Name the various components of stereoscopic plotting instruments.
- d) Draw a schematic diagram of geodimeter.
- e) Give broad classification of remote sensing.
- f) Name the various data input methods in GIS.
- g) Define GIS.
- h) Draw a schematic diagram of Generic GPS receiver.
- i) How is the horizontal angle measurement made with the help of Total Station?
- j) Write any two characteristics of Earth Resources Satellite.

SECTION-B

- 2) What do you understand by across track scanning? Explain with a neat diagram.
- 3) Explain the concept of stereoscopic measurement.
- 4) How is Raster and Vector data represented?
- 5) A vertical photograph is taken with a camera of focal length 350 mm from an elevation of 2500m above the ground. The terrain is nearly flat. What is the photo scale?
- 6) Briefly explain the applications of remote sensing in various areas.

SECTION-C

- 7) Explain in detail various models of Distomat.
- 8) Discuss in brief the salient features of Meteorological satellites.
- 9) The difference in parallax between a point living at sea level and another point on a higher ground is measured and found to be 4.20 mm. The flying height is 2530 m above sea level, the air base is 950 m and the focal length of the camera is 210 mm. Determine the elevation of the point on the higher ground.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.