

S-792

Total Pages : 4

Roll No. -----

GIS-502/DGIS-502

Fundamentals of Photogrammetry and Remote Sensing

(MAGIS/MSCGIS/DGIS/CGIS)

1st Semester, Examination 2022(Dec.)

Time: 2 Hours

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. Define remote sensing and describe its concepts? Give the global historical overview of aerial photography and satellite remote sensing?
- Q.2. What do you mean by remote sensing platforms? Describe characteristics of satellite's orbit? Explain different types of remote sensing platforms?
- Q.3. Describe characteristics of aerial photographs? Write a detailed account on the applications of aerial photograph?
- Q.4. What are the general characteristics of relief displacement? Explain causes and measurements of the relief displacement?
- Q.5. What do you mean by sensor resolution? Elaborately explain the relevant sensor types along with their characteristics?

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

- Q.1. Briefly describe the meaning, scope and importance of satellite remote sensing?
- Q.2. What is Electromagnetic Radiation (EMR)? Discuss the sources of Electromagnetic Radiation (EMR)?
- Q.3. Describe different types of sensors and compare the active and passive sensors?
- Q.4. What do you understand by atmospheric window? Explain its application in remote sensing?

P.T.O.

- Q.5. Explain the interaction of EMR with the earth surface matter?
- Q.6. What is stereoscopic vision? Explain natural and artificial stereoscopic visions?
- Q.7. What do you understand by scale of aerial photographs? Briefly explain the approaches of computing scale of aerial photographs?
- Q.8. Write brief notes on the elements of remote sensing for data interpretation?
