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MGS 455

Second Semester M.Sc. Degree Examination, September/October 2022
MARINE GEOLOGY
Remote Sensing and Photogrammetry

Time : 3 Hours

Max. Marks : 70

I. Define/State the following :

(10×1=10)

- 1) Electromagnetic spectrum.
- 2) GSLV.
- 3) Interferometry.
- 4) Tilt.
- 5) INSAT.
- 6) Nadir point.
- 7) POES.
- 8) Oblique photograph.
- 9) Stereoscope .
- 10) Mosaic.

II. Write short notes on **any five** of the following :

(5×4=20)

- 11) Types of resolution in remote sensing.
- 12) IRS satellites.
- 13) Image displacement in aerial photos.
- 14) Spectral signature of the different features on the earth.
- 15) Black body radiation.
- 16) SAR and RAR.
- 17) Digital photogrammetry.
- 18) Optical remote sensing.

P.T.O.



III. Answer **any four** of the following :

(4×5=20)

- 19) Energy interaction with atmosphere.
- 20) Aerial triangulation.
- 21) Factors affecting the vertical exaggeration.
- 22) Types of aerial photographs.
- 23) Platform and sensors.
- 24) Application of aerial photo on geomorphology.

IV. Write descriptive note on the following :

(2×10=20)

- 25) a) Give an account on LANDSAT series and its application on various studies.

OR

- b) Explain in detail the principles of thermal and microwave remote sensing.
- 26) a) Discuss in detail the role of Remote Sensing in shoreline change detection studies.

OR

- b) What is aerial photograph ? Explain the elements of aerial photograph interpretation.
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