TDC Even Semester Exam., 2019

GEOLOGY

(Honours)

(6th Semester)

Course No. : GELH–601

(Photogeology and Remote Sensing—II, Geotectonics—II, Geochemistry—II)

Full Marks : 35
Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Write about the principles of microwave remote sensing. Describe the different types of MW remote sensing and their advantages and disadvantages. 2+5=7

OR

2. Discuss the application of remote sensing in groundwater exploration. Add a note on their relation to lineaments. 5+2=7

3. *(a)* Explain the use of remote sensing in geomorphology. 5

(b) Add a brief note on Pratt's hypothesis. 2

OR

4. Write explanatory notes on the following : 3½+3½=7

(a) Natural radiation

(b) Palaeomagnetism

5. Give an outline of the tectonic framework of India. Add a note on craton. 5+2=7

OR

6. Describe the following : 3½+3½=7

(a) Gravity anomaly and its significance

(b) Island arcs and their formation

7. Explain the following : 3½+3½=7

(a) Mid-oceanic ridge

(b) Lithophile and atmophile elements

OR

8. Write descriptive notes on the following : 3½+3½=7

(a) Orogeny and epirogeny

(b) Isotopes and their application in geology

9. Write notes on the following : 3½+3½=7

(a) Capture and admittance of the elements

(b) Trace elements and their significance

OR

10. Discuss on the sedimentation as geochemical process. 7

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