TDC Even Semester Exam., 2019

GEOLOGY

(Honours)

(2nd Semester)

Course No. : GELH–203

(Mineral Optics—II, Principles of Stratigraphy—II and Planetary Geology—II)

Full Marks : 35
Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Why do minerals go extinct? What are types of extinction and how are they determined? 2+2+3=7

OR

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

(a) Determination of mineral relief

(b) Interference colour

3. What is pleochroism? How are pleochroic schemes determined? Give examples. 2+5=7

OR

4. What is birefringence? How does it relate to interference colour? Add a note on the scale of interference colours. 2+3+2=7

5. Give an account of biostratigraphic classification and correlation. 3½+3½=7

OR

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

(a) Order of superposition

(b) Magnetostratigraphy

7. Discuss palaeogeographic significance of the following : 3½+3½=7

(a) Varves

(b) Unconformities

OR

8. Write on the stratigraphic significance of the following : 3½+3½=7

(a) Graded bedding

(b) Cross-bedding

9. What are planets? How have they originated? Add a note on Lunar craters and their origin.

1+3+3=7

OR

10. Write explanatory notes on the following :

3½+3½=7

(a) Origin of galaxy

(b) Physical properties and types of meteorites

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