TDC Even Semester Exam., 2019

GEOLOGY

(Honours)

(4th Semester)

Course No. : GELH–403

(Economic Geology—II, Groundwater Geology—II and Oceanography)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

1. Give an account of various structural controls for localization of mineral deposits. 7

OR

2. Write short notes on the following : 3½×2=7

(a) Permo-Carboniferous metallogenic epoch in India

(b) Role of stratigraphic control on localization of mineral deposits

3. Write a detailed account on Lindgren's classification of mineral deposits. 7

OR

4. Write short notes on the following : 3½×2=7

(a) Stratiform and stratabound ore deposits

(b) Schneiderjöhn classification of mineral deposits

5. Define free and confined groundwater. Discuss various chemical works performed by groundwater. 2+5=7

OR

6. Write short notes on the following : 3½×2=7

(a) Water table and perched water table

(b) Types of atmospheric precipitation

7. Outline various types of contamination of groundwater. Add a note on the problem caused by arsenic and fluoride contamination of groundwater. 3+4=7

OR

8. Write short notes on the following : 3½×2=7

(a) Porosity and permeability

(b) Types of well

9. What do you understand by the term 'marine deposits'? Describe the fundamental classification of marine sediments based on the basic sources. Add a note on pelagic deposits. 1+4+2=7

OR

10. Write short notes on the following : 3½×2=7

(a) Characteristics of waves

(b) Tsunami and its origin

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