TDC Even Semester Exam., 2019

GEOLOGY

(Honours)

(4th Semester)

Course No. : GELH–401

(Petrology—IV, Palaeontology—IV and Structural Geology—IV)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

1. Write the CIPW classification of igneous rock with proper explanation. 7

OR

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

(a) Petrographic province

(b) Tetrahedral classification

3. Explain in detail Turner's classification of metamorphic rocks. Write a note on 'greenschist facies'. 5+2=7

OR

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

(a) Thermal metamorphism

(b) Regional metamorphism of basic rocks

5. Explain in detail the different factors affecting the distribution of organisms through geological time. 7

OR

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

(a) Stromatolite

(b) Palynotypes

7. Discuss the classification of microfossils. 7

OR

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

(a) Importance of Siwalik mammals

(b) Indian biostratigraphy for Cenozoic time

9. What is lineation? Discuss briefly the relation of lineation to the major structures. 1+6=7

OR

10. Write short notes on any *two* of the following : 3½×2=7

(a) Boudinage

(b) Plutons

(c) Pyroclastic beds

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