TDC Even Semester Exam., 2019

GEOLOGY

(Pass)

(4th Semester)

Course No. : GELP–401

(Structural Geology—II, Palaeontology—II, Indian Stratigraphy and Optical Mineralogy—II)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **all** questions

1. What are joints? Describe the different criteria to identify unconformities in the field. 2+5=7

OR

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

(a) Antiform and synform

(b) Salt domes

3. Discuss the causes of extinction of Siwalik mammals. 7

OR

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

(a) Ornamentation of Gastropoda

(b) Morphology of Foraminifera

5. Describe the stratigraphy of tertiary of North-East India giving emphasis to lithology and stratigraphic subdivision. 7

OR

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

(a) Economic importance of Precambrian of Singhbhum

(b) Palaeogeographic and stratigraphic significance of ripple marks

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

(a) Extinction angle

(b) Optic axis

(c) Pleochroism

(d) Isotropic and anisotropic minerals

8. Write a descriptive note on the morphology of Trilobita. 7

OR

9. *(a)* Discuss about the fossil content of Jurassic of Kutch. 3½

(b) Write a note on graded bedding. 3½

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