

4/EH-26 (iv) (Syllabus-2015)

2 0 1 7

(April)

GEOLOGY

(Elective/Honours)

(Stratigraphy and Palaeontology)

(GELH-401)

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer four questions, selecting one from each Unit

GROUP—A

(Stratigraphy)

UNIT—I

1. (a) Define stratigraphy. Illustrate the principles used in stratigraphy. 1+5=6
- (b) Mention the relationship exists between chrono-stratigraphic and geo-chronologic units with examples. 3+1=4

(2)

- (c) Add a brief note on biostratigraphic units. 4
2. (a) Give stratigraphical description of the Precambrian rocks of Karnataka. 7
- (b) Write notes on any *two* of the following : $3\frac{1}{2} \times 2 = 7$
- (i) Semri Group
 - (ii) Singhbhum Granite
 - (iii) Shillong Group

UNIT—II

3. (a) Give a general stratigraphic succession of the Triassic rocks of Spiti region. 7
- (b) Define trap rock. Write a brief stratigraphical note on the Deccan traps with reference to petrology, stratigraphical subdivisions and age with examples of fossils. $1 + 6 = 7$
4. Write short stratigraphical notes on any *four* of the following : $3\frac{1}{2} \times 4 = 14$
- (a) Patcham Formation
 - (b) Uttatur Formation

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(Continued)

(3)

- (c) Bagh Bed
- (d) Succession of Siwalik Group
- (e) Jaintia Group
- (f) Tipam Group

GROUP—B

(Palaeontology)

UNIT—III

5. (a) Define fossil. List the different modes of preservation of fossils. Explain any two of them. $1 + 2 + 4 = 7$
- (b) What are microfossils? What are the different types of microfossils? Add a note on their significance. $1 + 3 + 3 = 7$
6. Describe the evolutionary trends observed in Equidae with neat sketches. $12 + 2 = 14$

UNIT—IV

7. (a) Give general morphological features of brachiopod shells with drawing and labelling. $8 + 2 = 10$

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(Turn Over)

- (b) Mention the morphological differences between brachiopods and pelecypods. 4

8. Write short notes on any *four* of the following : $3\frac{1}{2} \times 4 = 14$

- (a) Forms of foraminifera
- (b) Cephalon in trilobites
- (c) Regularia and irregularia echinoids
- (d) Gangamopteris
- (e) Ptilophyllum
- (f) Suture lines in cephalopods

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