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

2018

(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 correlation. Mention the factors
 used in litho-stratigraphic and
 bio-stratigraphic correlation. 1+2=3
 - (b) Write briefly on either litho-stratigraphic or bio-stratigraphic correlation.
 - (c) Discuss on the principles of radiometric dating of rock.

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- **2.** (a) Give stratigraphical description of the pre-Cambrian rocks of the Cuddapah Supergroup.
 - (b) Write short notes on any two of the following: 2×2^{-4}
 - (i) Closepet Granite
 - (ii) Bhander Group
 - (iii) Mylliem Granite

UNIT-II

- 3. (a) Describe the stratigraphical succession of the Jurassic rocks of Kutch region.
 - (b) Write stratigraphical notes on any two of the following: $3\frac{1}{2}\times2^{-1}$
 - (i) Agglomeratic Slate Series and Panjal Traps
 - (ii) Upper Triassic succession of Spiti
 - (iii) Talchir Group
 - (iv) Bagh Beds
- 4. (a) Describe the general stratigraphy of Tertiary rocks of North-East India.
 - (b) Discuss the stratigraphic succession of the Siwalik Group

GROUP-B

(Palaeontology)

UNIT-III

- **5.** (a) Define micro-palaeontology. Explain the different types of microfossils with examples. 2+5=7
 - (b) Describe the Siwalik mammals of India and discuss the causes of their extinction. 5+2=7
- 6. Describe the evolutionary trends observed in trilobites with neat sketches. 12+2=14

UNIT---IV

- 7. (a) Illustrate the morphological features of foraminifera with respect to (i) composition, (ii) types of chambers, (iii) forms and (iv) aperture with suitable sketches.
 - (b) Write short notes on any two of the following: 2×2=4
 - (i) Vertebraria
 - (ii) Articulata and Inarticulata brachiopods
 - (iii) Geological distribution of echinoidea

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(Turn Over)

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8.	Writ the	te palaeontological notes on any two of following: $7 \times 2 =$:14
	(a)	Morphology of graptoloidea	7
	(b)	Forms and and	

(b) Forms and suture lines in cephalopods with neat sketches 2+5=7
 (c) Gondwana flora 7
