

2016

( 4th Semester )

GEOLOGY

FOURTH PAPER

( Palaeontology and Stratigraphy—I )

Full Marks : 55

Time : 2½ hours

( PART : B—DESCRIPTIVE )

( Marks : 35 )

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

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Discuss the history of development in Palaeontology. 7
2. Define fossil. Add notes on the conditions of fossilization. 1+6=7

UNIT—II

3. Describe the morphology of trilobites with the help of labelled diagram. 7
4. Write notes on the following : 3½×2=7
  - (a) Chief characteristics of Echinoderms
  - (b) Geological distribution of Anthozoa

UNIT—III

5. Discuss the facies concept in stratigraphy. 7
6. Write brief notes on the following : 3½×2=7
  - (a) Lithostratigraphic classification
  - (b) Geological time scale

UNIT—IV

7. Describe in detail about the Permian-Triassic boundary. 7
8. Write notes on the following : 3½×2=7
  - (a) Tertiary of Assam-Arakan Fold Mountain
  - (b) Paleozoic of Lesser Himalayan Regions



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UNIT—V

9. Give a detailed classification of Vindhyan Supergroup. 7
10. Write notes on any *two* of the following :  
 $3\frac{1}{2} \times 2 = 7$
- (a) Economic significance of Precambrian rocks of Central India
  - (b) Daling Group
  - (c) Precambrian of Extrapeninsular India

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**Subject Code : GEOL/IV/04**

**Booklet No. A**

Date Stamp .....

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**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2016**

Subject .....

Paper .....

**INSTRUCTIONS TO CANDIDATES**

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2016**

Roll No. ....

Regn. No. ....

Subject .....

Paper .....

Descriptive Type

Booklet No. B .....

*Signature of  
Scrutiniser(s)*

*Signature of  
Examiner(s)*

*Signature of  
Invigilator(s)*

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( 4th Semester )

**GEOLOGY**

FOURTH PAPER

**( Palaeontology and Stratigraphy—I )**

( PART : A—OBJECTIVE )

( Marks : 20 )

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

Answer **all** questions

SECTION—I

( Marks : 5 )

- 1.** Choose the correct answer and put its code in the brackets provided : 1×5=5

(a) The study of trace fossil is known as

(i) Ichnology

(ii) Palaeontology

(iii) Synecology

(iv) Taphonomy

[       ]

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( 2 )

(b) *Arca* is an example of phylum

(i) Brachiopod

(ii) Echinodermata

(iii) Mollusca

(iv) Bryozoa [      ]

(c) The fundamental unit of lithostratigraphic classification is

(i) Group

(ii) Member

(iii) Formation

(iv) Bed [      ]

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(d) Which of the following Formations is not associated with Mesozoic succession of Kutch region?

(i) Umia Formation

(ii) Lathi Formation

(iii) Chari Formation

(iv) Katrol Formation [      ]

(e) Which of the following Groups belongs to Cuddapah Supergroup?

(i) Cheyair Group

(ii) Bhander Group

(iii) Kolhan Group

(iv) Semri Group [      ]

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SECTION—II

( Marks : 15 )

**2.** Write brief notes on the following :

3×5=15

(a) Molds and Casts



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(b) Brachiopods

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( 6 )

(c) Principle of superposition

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(d) Triassic succession of Spiti Valley

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(e) Dharwar of Karnataka

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