

2017

( 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. (a) Explain briefly the relationship of palaeontology with other sub-discipline of Geology. 4
- (b) Write a brief note on origin of life. 3

2. Write short notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Environmental conditions for fossilization
- (b) Difference between Neritic zone and Pelagic zone

UNIT—II

3. Write notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Morphological characteristics of Hemichordata
- (b) Geological distribution of class Graptoloidea
4. Write notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Morphological characteristics of Bryozoa
- (b) Geological distribution of class Echinoidea

UNIT—III

5. What is geochronology? Describe in detail geochronologic units. 7
6. Write short notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Stratigraphic correlation
- (b) Biostratigraphy

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UNIT—IV

7. Describe the physical characteristics and structural subdivisions of India. Support your answer with the help of Indian Map. 7
8. Describe the Mesozoic Era in terms of stratigraphic classification, tectonic history and life forms. 7

UNIT—V

9. Describe the Cuddapah Supergroup in terms of stratigraphic classification, lithology and economic significance. 7
10. Write notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Precambrians of North-East India
- (b) Kurnool Group

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Subject Code : GEOL/IV/04

Booklet No. **A**

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Date Stamp .....

**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**  
Subject .....  
Paper .....

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**To be filled in by the Candidate**

DEGREE 4th Semester  
(Arts / Science / Commerce /  
..... ) Exam., **2017**  
Roll No. ....  
Regn. No. ....  
Subject .....  
Paper .....  
Descriptive Type  
Booklet No. B .....

**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, overwriting 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.

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 hierarchical order in taxonomic classification is
- (i) kingdom/phylum/order/class/family/genus/species
  - (ii) kingdom/phylum/class/order/family/genus/species
  - (iii) kingdom/phylum/class/family/order/genus/species
  - (iv) kingdom/phylum/family/order/class/genus/species

[       ]

( 2 )

(b) Umbo pointing towards each other is called

(i) prosogyre

(ii) ophistogyre

(iii) orthogyre

(iv) spiral

[     ]

(c) The period Miocene belongs to

(i) Paleozoic

(ii) Mesozoic

(iii) Quaternary

(iv) Cenozoic

[     ]

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(d) The close of Paleozoic Era was marked by

(i) Himalayan orogeny

(ii) Caledonian orogeny

(iii) Alpine orogeny

(iv) Hercynian orogeny [ ]

(e) Gold deposit of Kolar Gold Mine is associated with

(i) Pulivendula quartzite formation

(ii) Jammalamadugu formation

(iii) Sargur schist complex

(iv) Rewa Group [ ]

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SECTION—II

( Marks : 15 )

2. Write short notes on the following :

3×5=15

(a) Body fossils

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(b) Difference between inarticulate and articulate brachiopods

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(c) Principle of horizontality and lateral continuity

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(d) Tectonic history of Paleozoic Era

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(e) Lithostratigraphic succession of Vindhyan  
Supergroup

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