

2015

( 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. Give a detailed account of the modes of preservation of fossils. 7
2. Write descriptive notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$ 
  - (a) Origin of life
  - (b) Incompleteness of fossil records

G15—200/266a

( Turn Over )

UNIT—II

3. With the help of labeled diagram, illustrate the morphological features of brachiopods. 7
4. Draw labeled sketch showing important morphological features of—
  - (a) graptoloids;
  - (b) trilobites.  $3\frac{1}{2}+3\frac{1}{2}=7$

UNIT—III

5. Write an essay on the Duell stratigraphic classification. 7
6. Write notes on any *two* of the following :  $3\frac{1}{2}\times 2=7$ 
  - (a) Index fossil
  - (b) Geological time scale
  - (c) Law of order of superposition

UNIT—IV

7. Describe in detail about the Precambrian-Cambrian boundary. 7
8. Give an account of the tectonic environment and life forms of the Mesozoic era. 7

UNIT—V

9. Describe in detail about the geology of Cuddapah supergroup. 7
10. Write descriptive notes on the following :  $3\frac{1}{2}+3\frac{1}{2}=7$
- (a) Precambrian rocks of Central India
  - (b) Lithostratigraphic succession of Kurnool

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2015

( 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 number in the brackets provided : 1×5=5

(a) Corona is associated with

- (i) gastropods
- (ii) cephalopods
- (iii) echinoids
- (iv) brachiopods

[ (iv) ]

(b) Snail is a living example of

(i) brachiopods

(ii) trilobites

(iii) graptoloids

(iv) gastropods

[ ]

(c) The smallest unit in chronostratigraphic classification is

(i) eon

(ii) era

(iii) age

(iv) phase

[ ]

(d) *Cardita beaumonti* is an index fossil, defining boundary between

(i) Permian-Triassic

(ii) Cretaceous-Tertiary

(iii) Tertiary-Quaternary

(iv) Precambrian-Cambrian

[ ]

(e) Panna diamond pipes are associated with

(i) Vindhyan

(ii) Dharwar

(iii) Cuddapah

(iv) Kurnool

[ ]

SECTION—II

( Marks : 15 )

2. Write notes on the following in the space provided :

3×5=15

(a) Trace fossil

(b) Suture in cephalopods

boundary between

(i) Permian-Triassic

(ii) Cretaceous-Tertiary

(iii) Tertiary-Quaternary

(iv) Precambrian-Cambrian

(c) Paria demands are not associated with

(i) Vindhyan

(ii) Uthmaniyah

(iii) Gondwanan

(iv) Karoon

(c) Biostratigraphic units

3. Write notes on the following in the space provided:

(a) Trace fossil

(d) Extra peninsular India

(4th Semester)

GEOLOGY

FOURTH PAPER

(Paleontology and Stratigraphy-I)

(PART: A—OBJECTIVE)

(Marks: 20)

The marks in the margin indicate full marks for the questions

Answer all questions

SECTION—I

(Marks: 5)

1. Choose the correct answer and put its number in the brackets provided.

(a) Corals is associated with

(i) gastropods

(ii) cephalopods

(iii) echinoids

(iv) brachiopods

(e) Vindhya of Sone Valley

- (i) ...
- (ii) ...
- (iii) ...
- (iv) ...

The ... unit in ...  
classified is ...

- (i) ...
- (ii) ...
- (iii) ...
- (iv) ...

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