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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 number in the brackets provided : 1×5=5

(a) Corona is associated with

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

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(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

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(e) Panna diamond pipes are associated with

(i) Vindhyan

(ii) Dharwar

(iii) Cuddapah

(iv) Kurnool

[]

(4)

SECTION—II

(Marks : 15)

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

3×5=15

(a) Trace fossil

(b) Suture in cephalopods

(c) Biostratigraphic units

(d) Extra peninsular India

(e) Vindhyaans of Sone Valley

IV/GEOL (iv)

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

(2)

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 Duesenroth 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
