(2)

2017

6th Semester)

GEOLOGY

NINTH PAPER

(Palaeontology and Stratigraphy—II)

Full Marks: 55

Time: 21/2 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) Write the principle of fossil correlation. How to correlate rock strata using index fossil? Explain with suitable example.

1+3=4

3

(b) Suppose the palaeontological team discovered a new species of phylum brachiopoda at keifang quarry. Write different steps of new species naming, giving appropriate genus and species.

2. (a) Elaborate the palaeontological evidences of evolution.

(b) Write a brief note on different methods to identify a species.

UNIT—II

3. Write notes on the following: $3\frac{1}{2}+3\frac{1}{2}=7$

- (a) Classification of plant fossils
- (b) Middle Siwalik vertebrate fauna

4. Write notes on the following: $3\frac{1}{2}+3\frac{1}{2}=7$

- (a) Characteristics of Superclass Pisces
- (b) Glossopteris

UNIT—III

5. Write a note on the application of microfossils in petroleum exploration. 7

6. Give accounts of the morphological characteristics, geological distribution and palaeoecology of any *two* of the following: $3\frac{1}{2} \times 2=7$

0 / 2

4

3

- (a) Foraminifera
- (b) Radiolaria
- (c) Spores and pollen

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(Turn Over)

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(Continued)

Unit—IV

- **7.** Describe the stratigraphic successions of the following: $3\frac{1}{2}+3\frac{1}{2}=7$
 - (a) Archean of South India
 - (b) Cretaceous of Tiruchirapalli
- **8.** Write short notes on any *two* of the following: $3\frac{1}{2} \times 2 = 7$
 - (a) Upper Trias
 - (b) Muth Formation
 - (c) Panjal Volcanics
 - (d) Talchir Group

Unit—V

- **9.** Describe the lithostratigraphic succession of Siwalik supergroup in terms of lithology and fossil assemblages. 7
- **10.** Write notes on the following: $3\frac{1}{2}+3\frac{1}{2}=7$
 - (a) Lithostratigraphic succession of Assam
 - (b) Geology of Andaman

Subject Code : GEOL/VI/	09	Booklet No. A				
To be filled in by the Ca	andidate	Date Stamp				
DEGREE 6th Semester (Arts / Science / Comments) Exam., 2 Subject	2017					
Paper		To be filled in by the Candidate				
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3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one		Subject Paper				
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2017

(6th Semester)

GEOLOGY

NINTH PAPER

(Palaeontology and Stratigraphy—II)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A (Marks: 5)

- **1.** Put a Tick (✓) mark against the correct answer in the brackets provided : 1×5=5
 - (a) Which of the following fossils is not used for Gondwana land reconstruction?
 - (i) Cynognathus ()
 - (ii) Gangamopteris ()
 - (iii) Mesosaurus ()
 - (iv) Moeritherium ()

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(b)		most ebrate f			-	import	ant	part	of
	(i)	neckbo	one	()				
	(ii)	notoch	ord	()				
	(iii)	molar	()					
	(iv)	skull	()					
(c)	Micı	rofossils	are ge	enera	lly 1	not larg	er th	ıan	
	(i)	2 mm	()					
	(ii)	4 mm	()					
	(iii)	1 mm	()					
	(iv)	6 mm	()					
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(d)	over	unfossiliferous laid conformabl nmir.					_	
	(i)	muth quartzite	:S	()			
	(ii)	syringothyris li	mest	ones	3	()	
	(iii)	dogra slates	()				
	(iv)	fenestella shale	es	()			
(e)		recommended was occurred		anic	activi	ty of	Deco	an
	(i)	60-65 Ma	()				
	(ii)	63 – 68 Ma	()				
	(iii)	65–66 Ma	()				
	(iv)	30-100 Ma	()				
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(4)

SECTION—B

(*Marks*: 15)

2. Write notes on the following:

 $3 \times 5 = 15$

(a) Living fossils with example

(5)

(b) Origin of class Reptilia

(6)

(c) Conodonts

(7)

(d) Economic importance of Gondwana supergroup

(8)

(e) Origin of Deccan Trap

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