## (2)

2017

(CBCS)

(3rd Semester)

**GEOLOGY** 

THIRD PAPER

(Stratigraphy and Paleontology—I)

Full Marks: 75

Time: 3 hours

(PART: B—DESCRIPTIVE)

( *Marks*: 50)

The figures in the margin indicate full marks for the questions

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

Unit—I

- 1. Write descriptive notes on the following:  $5\times2=10$ 
  - Relationship between Palaeontology and Stratigraphy
  - Incompleteness of fossil record

**2.** Write notes on the following:  $5 \times 2 = 10$ 

Environmental condition for fossilization

Pelagic zone of animal distribution

UNIT—II

**3.** Describe the following:  $5 \times 2 = 10$ 

- Morphological characteristics of class Graptoloidea
- Geological distribution of corals (class Anthozoa)
- morphological **4.** Write important characteristics of class Trilobita. Support your answer with labeled diagram. 7+3=10

UNIT—III

- **5.** Write a detailed note on stratigraphic correlation. 10
- **6.** Define stratigraphy. Write short notes on the following: 2+4+4=10
  - Lithostratigraphic units
  - Principles of stratigraphy

8G**/55a** (Turn Over) www.gzrsc.edu.in (Continued)

#### UNIT—IV

7. Give the geological succession of Vindhyan supergroup and describe in terms of lithology, tectonics and economic importance.

10

- **8.** Write notes on the following:  $5 \times 2 = 10$ 
  - Geology of Indravati group
  - Geology of Dongargarh belt

#### Unit-V

- **9.** Write a note on the geological succession of Deccan trap describing on the geological evolution, age and lithology. 10
- 10. With the help of geological succession of North-East India, enumerate the geological settings, lithology and economic resources.

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Subject Code : GEOL/III/EC/05	Booklet No. <b>A</b>		
To be filled in by the Candidate	Date Stamp		
CBCS  DEGREE 3rd Semester  (Arts / Science / Commerce /  ) Exam., 2017			
Subject	To be filled in by the Candidate		
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.	CBCS  DEGREE 3rd Semester  (Arts / Science / Commerce /  DEGREE 3rd Semester		
2. This paper should be ANSWERED FIRST and submitted within $\frac{1}{1}$ (one) Hour of the commencement of the Examination.	Roll No		
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.	Subject  Paper  Descriptive Type  Booklet No. B		

Signature of Scrutiniser(s) Signature of Examiner(s) Signature of Invigilator(s)

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## GEOL/III/EC/05

### 2017

(CBCS)

(3rd Semester)

#### **GEOLOGY**

THIRD PAPER

## (Stratigraphy and Paleontology—I)

( PART : A—OBJECTIVE ) ( *Marks* : 25 )

The figures in the margin indicate full marks for the questions

SECTION—A

( Marks: 10 )

- **1.** Choose the correct answer and put its number within the brackets provided :  $1 \times 10 = 10$ 
  - (a) Which of the following is correct about mould and cast?
    - (i) Mould is impression of an organism and cast is hollow part of impression
    - (ii) Mould is impression of an organism and cast is any substance that fills the mould
    - (iii) Cast is impression of an organism and mould is hollow part of impression
    - (iv) Cast is impression of an organism and mould is any substance that fills the cast

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/55

(b)		Which of the following is not included in the five- kingdom classification?		
	(i)	Fungi		
	(ii)	Monera		
	(iii)	Eubacteria		
	(iv)	Protista	[	]
(c)	The Gas	shell is said to be tropods in the presence of	'imperforate'	in
	(i)	columella		
	(ii)	umbilicus		
	(iii)	peristome		
	(iv)	whorl	[	]
(d) Hinge line is curved in the Brachiopod shell			niopod shell of	
	(i)	strophic		
	(ii)	articulate		
	(iii)	inarticulate		
	(iv)	astrophic	[	]
GEOL/III/EC/05/55				

(e)		Similarity of the position of strata or system in a sequence but dissimilar in age is called			
	(i)	homotaxial			
	(ii)	homotaxis			
	(iii)	contemporaneous			
	(iv)	synchronous	[ ]		
(f)		primary formal unit of sification is	chronological		
	(i)	formation			
	(ii)	period			
	(iii)	age			
	(iv)	epoch	[ ]		
(g)	) Stromatolites and glauconitic beds a associated with and represents a/an environment of deposition.				
	(i)	Ranibennur group/aeolian			
	(ii)	Semri group/marine			
	(iii)	Kundair formation/glacial			
	(iv)	Kistna group/marine	[ ]		

(h)	Mik faul	ir Massif is separated from _ t.	t	ру	
	(i)	Shillong plateau/Dawki			
	(ii)	Deccan plateau/Jamuna			
	(iii)	Chota Nagpur plateau/Oldhai	m		
	(iv)	Shillong plateau/Kopili	[	]	
(i)	Boulder beds are found at the base of the geological succession of supergroup that represents environment of deposition.				
	(i)	Vindhyan/aeolian			
	(ii)	Gondwana/fluvial			
	(iii)	Cuddapah/marine			
	(iv)	Gondwana/glacial	[	]	
<i>(j)</i>	•	Rhyolite is associated with nation.		group/	
	(i)	Nandgaon			
	(ii)	Barail			
	(iii)	Panchmari			
	(iv)	Lonavala	[	]	

(5)

SECTION—B

( *Marks* : 15 )

**2.** Write on/Answer *one* from each UNIT :  $3\times5=15$ 

UNIT—I

- (a) Limnobiotic realm
- (b) Ichnology

(6)

# UNIT—II

- (c) Umbo
- (d) Regular and irregular echinoidea

# (7)

## UNIT—III

- (e) Write a short note on Mesozoic Era.
- (f) Relations of Stratigraphy with other branches of Geology

(8)

# UNIT—IV

- (g) Mikir Massif
- (h) Sakoli triangle

(9)

## UNIT-V

- (i) Geological succession of Gondwana supergroup
- (j) Siwalik mammalian fossils

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8G—300**/55** 

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