2017

(6th Semester)

GEOLOGY

TWELFTH (B) PAPER

(Economic Geology)

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

- (a) Epigenetic deposits
- (b) Zoning
- **2.** Give an account on ore-forming minerals.

G7**/446a** (*Turn Over*)

UNIT—II

3. Discuss the process of formation of hydrothermal deposits. Also add a note on classification of hydrothermal deposits on the basis of their temperature of formation.

3+4=7

4. Write notes on any two of the following:

 $3\frac{1}{2} \times 2 = 7$

- (a) Mechanical concentration
- (b) Contact metasomatic deposits
- (c) Oxidation of supergene enrichment

Unit—III

5. Write notes on bauxite deposits of India with special reference to their origin, mode of occurrence and distribution.

7

7

6. Write detailed notes on different processes involved in ore dressing.

UNIT—IV

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

- (a) Water power
- (b) Origin of coal
- **8.** Discuss the origin and occurrence of petroleum.

7

G7/446a (Continued)

Unit—V

9. Write notes on any two of the following:

 $3\frac{1}{2} \times 2 = 7$

7

- (a) Ore deposits at collision boundaries
- (b) The important Indian metallogenetic provinces
- (c) Metallogenic epoch
- **10.** Describe the relationship between plate boundaries and ore mineralization. Support your answer with neat sketches.

 $\star\star\star$

G7—150**/446a**

GEOL/VI/12 (b)

Subject Code: GEO	DL/VI/12 (b)	Booklet No. A			
To be filled in by the		Date Stamp			
DEGREE 6th Semes (Arts / Science / Co) Exa	ommerce / am., 2017				
Paper	:	To be filled in by the Candidate			
INSTRUCTIONS TO C	CANDIDATES	DEGREE 6th Semester			
 The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa. 		(Arts / Science / Commerce /) Exam., 2017			
2. This paper should be Al and submitted within of the commence Examination.	1 45 minutes	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,		Subject			
if required, should be the main Answer Bo given in each ques followed for answerin	e done only on ok. Instructions tion should be	Descriptive Type Booklet No. B			
only. Signature of Scrutiniser(s)	Signature of Examiner(s)	Signature of Invigilator(s)			

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GEOL/VI/12 (b)

2017

(6th Semester)

GEOLOGY

TWELFTH (B) PAPER

(Economic Geology)

(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) Initial non-economic concentration of minerals that may become economic if altered, is called

(i) restore ()

(ii) possible ore ()

(iii) protore ()

(iv) probable ore ()

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(b)		ses of coun are vein depo				within	the
	(i)	drosses	()			
	(ii)	horses	()			
	(iii)	gossans	()			
	(iv)	skarns	()			
(c)		ong the ores wn as natura			 is	comm	only
	(i)	hematite	()			
	(ii)	magnetite	()			
	(iii)	limonite	()			
	(iv)	siderite	()			
GEOL/VI/	12 (b)	/446					

(d)	Solar energy is also called		
	(i) natural energy ()		
	(ii) photovoltaic energy ()		
	(iii) heat energy ()		
,	(iv) radiant energy ()		
	The average concentration of elements in the crust is expressed in terms of		
	(i) Maclure value ()		
	(ii) Wilson value ()		
	(iii) Diet2 value ()		
	(iv) Clarke value ()		
GEOL/VI/12 (b)/446			

(4)

SECTION—B

(*Marks*: 15)

2. Write on the following: $3 \times 5 = 15$

(a) Tenor

(5)

(b) Organic deposits

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(c) Advantage of seismic methods of exploration

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(7)

(d) Coal seam

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(8)

(e) Factors of economics in exploration

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