## **GEOL/VI/12 (b)**

(2)

2016

(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 an account on the morphology of concordant and discordant ore bodies.

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

**2.** Write notes on any two of the following:

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

- (a) Determination of paragenetic sequence
- (b) Syngenetic ore deposits
- (c) Ore minerals

UNIT—II

**3.** Discuss the mode of formation of magmatic concentration deposits.

7

**4.** Write notes on any two of the following:

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

- (a) Oxidation and supergene enrichment
- (b) Sublimation
- (c) Residual concentration

UNIT—III

**5.** Write an account on chromite deposits in India with special reference to their mode of occurrence, origin and distribution.

7

**6.** Mention various methods of mineral exploration. Write a detailed account of geophysical methods of mineral exploration.

2+5=7

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G16/362a (Turn Over)

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#### Unit—IV

**7.** Discuss the occurrence, origin and distribution of atomic minerals in India.

**8.** Write notes on any two of the following:

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

- (a) Types of coal
- (b) Solar energy
- (c) Wind energy

#### Unit-V

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

- (a) Metallogenic provinces
- (b) Metallogenic epochs
- **10.** Give an account on any *two* of the following:

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

- (a) Deposits at convergent plate margins
- (b) Economic factors in controlling minerals
- (c) Copper province of Singhbhum

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Subject Code: GEOL/V	/I/12 (b)	Booklet No. <b>A</b>				
To be filled in by the C		Date Stamp				
DEGREE 6th Semester (Arts / Science / Comm ) Exam., Subject	2016					
Paper	:	To be filled in by the Candidate				
INSTRUCTIONS TO CAND	IDATES	DEGREE 6th Semester				
<ol> <li>The Booklet No. of this scriquoted in the answer scrip descriptive type question versa.</li> <li>This paper should be ANSW</li> </ol>	ot meant for is and vice	(Arts / Science / Commerce / ) Exam., <b>2016</b> Roll No.				
and submitted within $\frac{45}{5}$ of the commencement Examination.		Regn. No				
3. While answering the quest booklet, any cutting, era writing or furnishing mor answer is prohibited. Any if required, should be do	asing, over- e than one rough work,	Subject				
the main Answer Book. given in each question followed for answering th only.	Instructions should be	Booklet No. B				
Signature of Scrutiniser(s)	Signature of Examiner(s)	Signature of Invigilator(s)				

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

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# GEOL/VI/12 (b)

## 2016

(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 ( $\checkmark$ ) mark against the correct answer in the brackets provided :  $1 \times 5 = 5$ 
  - (a) Concordant ore bodies which show development in two dimensions but limited in third dimension are called
    - (i) stockwork ( )
    - (ii) stratabound ( )
    - (iii) stratiform ( )
    - (*iv*) skarn ( )

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	Early-formed heavy minerals of a melt by sin early under gravity form								
(i) n	nagmatic segregation deposits (	)							
(ii) la	ate magmatic deposits ( )								
(iii) p	egmatitic deposits ( )								
(iv) p	neumatolytic deposits ( )								
(c) Which manga	of the following is not an ore anese?	of							
(i) P	yrolusite ( )								
<i>(ii)</i> B	fornite ( )								
(iii) M	Ianganite ( )								
(iv) B	raunite ( )								
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(d)	When sediment contains more than 5% organic matter, it eventually forms a lock known as								
	(i)	coal	( )						
	(ii)	fossil	(	)					
	(iii)	limestone	(	(	)				
	(iv)	black shal	le	(	)				
(e)	Pern	no-carboni	ferous	epo	och i	in l	ndia	is kno	own for
	(i)	coal depos	sits	(		)			
	(ii)	oil deposit	cs.	(	)				
	(iii)	copper de	posits		(		)		
	(iv)	semiprecio	ous sto	ones	3		(	)	
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(4)

SECTION—B

( *Marks*: 15)

2. Write on the following:

 $3 \times 5 = 15$ 

(a) Basic geological requirements for ore deposition

(5)

(b) Gossan

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(6)

(c) Comminution

(7)

(d) Geothermal energy

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(8)

(e) Precambrian epoch in Indian metallogeny

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