6 SEM TDC GEO M 1

2019

(May)

GEOLOGY

(Major)

Course: 601

(Mining and Engineering Geology)

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

UNIT-19.1

(Mining Geology)

(Marks : 24)

- 1. Briefly write about the importance of mining. 2
- 2. What are the factors that determine the mining method?
- 3. Describe the various stages of activities in modern mining.

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(Turn Over)

2

4

Or

Discuss any three problems associated with underground mining and how these problems are managed in the field.

- 4. Describe the underground mining methods in a weak country rock with suitable diagrams.
- 5. Write explanatory notes on any three of the following: 4×3=12
 - (a) Mining of placer deposit
 - (b) Ore reserve estimation
 - (c) Breaking of rocks
 - (d) Sub-level stopping

UNIT-19.2

(Engineering Geology)

(Marks: 24)

- **6.** What are the objectives of a geologist in mega construction project?
- 7. Mention the properties of rock for engineering construction purpose.

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2

2

4

8.	What	geological		l guid	guidelines		you	will
	recomm	nend	for	constru	iction	of	an	RCC
	building in a seismically active zone?							

4

4

Describe the geological considerations for selection of site and design for a bridge.

Discuss on the geological factors that need to be considered for a tunnel construction.

Or

10. Write explanatory notes with suitable diagrams on any three of the following:

4×3=12

- (a) Landslide and its causes
- (b) Highway
- (c) Parts of a dam
- (d) Crushing strength and shearing strength
