Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER-VII EXAMINATION - SUMMER 2016**

Su	bject	Code:172205 Date:05/05/201	16
Tir	ne:02	Attempt all questions.  Make suitable assumptions wherever necessary.	70
Q.1	(a) (b)	What is circular failure? Explain circular failure charts. Explain geological investigation programme for porphyry deposits.	07 07
Q.2	(a) (b)	Explain ground water in rock slope.  Describe load and resistance factor in design for rock slopes.  OR	07 07
	<b>(b)</b>	Describe Hoek-brown strength criteria for rock mass.	07
Q.3	(a) (b)	What do you mean by role of explosive? Add a note on production blasting. What is blast damage? The name of controlling measures for it.  OR	07 07
Q.3	(a) (b)	Explain comprehensive wedge analysis.  Explain reinforcement with fully grouted untensioned dowels.	07 07
Q.4	(a) (b)	What is plane failure? Explain plane failure analysis.  Explain the different methods for stabilization by rock removal.  OR	07 07
Q.4	(a) (b)	Describe importance of explosive properties and blast hole diameter for blasting in slope area.  What is the different principal of rock slope engineering and explain any one	07
Q.5	(a) (b)	Which geological parameter are used for the rock slope engineering.  Explain regressive and progressive movements of rock slope.  OR	07 07
Q.5	(a) (b)	Explain surface monitoring methods for rock slope. Write a short note on bishop's and janbu's method for slices.	07 07

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