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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - WINTER 2018

Subject Code:2142206	Date:12/12/2018
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Subject Name:Surface Mine Production

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Define the Bench Height & Width.	03
	(b)	Draw a flow diagram of mineral extraction & mineral transportation in open cast mining	04
	(c)	Define Explosive. Explain Multi Row Blasting.	07
Q.2	(a)	What do you mean by O.M.S?	03
	(b)	How is over burden removes in open cast mining?	04
	(c)	Explain Bucket Wheel Excavator in brief.	07
		OR	
	(c)	Explain Secondary Blasting and Coyote Blasting	07
Q.3	(a)	Write the DGMS's guideline for calculating the width of the haul road.	03
	(b)	Write a short note on the application of reclaimers.	04
	(c)	Write down various factors influencing Stability of Slopes OR	07
Q.3	(a)	What do you mean by secondary blasting?	03
	(b)	Enlist the types of haul road. Explain any one with neat sketch.	04
	(c)	Write a short note on Grading and Ripping.	07
Q.4	(a)	Write use of Front End Loader.	03
	(b)	Write a short note on belt conveyor system of transportation.	04
	(c)	Write a short note on choice of mining methods. OR	07
Q.4	(a)	What do you mean by Bulldozing?	03
	(b)	Write note on Coyote Blasting	04
	(c)	Write a short note on system of disposal of overburden	07
Q.5	(a)	Give any four examples of High explosive.	03
	(b)	Write note on Scraping and Grading	04
	(c)	Write down factors influencing selection and characteristics of opencast work. OR	07
Q.5	(a)	Why slope failure in opencast mine? Give reason.	03
C	(b)	Describe the various factors influencing choice of excavating and loading machine.	04
	(c)	Write advantage and disadvantage of Surface Mining.	07

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