Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V (NEW) - EXAMINATION - SUMMER 2017** 

Subject Code: 2152201 Date: 27/04/2017

**Subject Name: Mining Machinery - II** 

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.

	Short Questions	14
1	Enlist the various parts of head gear.	
2	What is the difference between cage and skip?	
3	In drum winding, the diameter of the head gear pulley should be at least	
	times the rope diameter.	
4	Write the function of safety catches.	
5		
6	What is the difference between cutter loaders and face loaders?	
7	Enlist the different face loaders.	
8	Define the angle of fleet.	
9	What is the function of skip?	
10	What is the function of headgear?	
11	What do you mean by banking?	
<b>12</b>	Enlist the different coal cutting machineries.	
13	Which type of wire ropes are used in winding?	
<b>14</b>	Which factors are most important for the choice of cutter loader?	
(a)		03
<b>(b)</b>	· · · · · · · · · · · · · · · · · · ·	04
<b>(c)</b>	- · · · · · · · · · · · · · · · · · · ·	07
(c)		07
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(c)		U/
(a)		03
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(c)		07
	2 3 4 5 6 7 8 9 10 11 12 13 14 (a) (b) (c) (c) (a) (b) (c) (a) (b) (c)	Enlist the various parts of head gear.  What is the difference between cage and skip?  In drum winding, the diameter of the head gear pulley should be at least

<b>Q.5</b>	(a)	Which factors should be considered for choice of loaders?	03
	<b>(b)</b>	Write a short note on coal cutting mechanism.	04
	<b>(c)</b>	Explain the drum winder with neat sketch.	07
		OR	
Q.5	(a)	Draw a layout of railway siding of mine.	03
	<b>(b)</b>	Explain the king detaching safety hook with sketch.	04
	(c)	Explain the koepe winder with neat sketch.	07

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