

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (New) EXAMINATION - WINTER 2018

Subject Code: 2134001	Date:28/11/2018
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Subject Name: Machineries & Equipments

Instructions:

1. Attempt all questions.

- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

3. Figures to the right indicate full marks.			MARKS	
Q.1	(a) (b) (c)	Classify earthmoving operations Discuss use and types of feeders. Explain Operating principle, components, construction, working, application, advantages-limitations of any one of the Graders with neat sketch.	03 04 07	
Q.2	(a)	Describe necessity and use of screening equipment after		
	(b) (c)	crushing. Enumerate requirements of dredging. Explain Operating principle, components, construction, working, application, advantages-limitations of drum mixer asphalt plant with neat sketch. OR		
	(c)	Write detail note on 5S system.	07	
Q.3	(a)	Enumerate and explain factors affecting selection of concrete pump.	03	
	(b) (c)	Explain capital budgeting techniques. Write a note on Industrial safety. OR	04 07	
Q.3	(a) (b)	Explain methodology of asphalt distribution. What is tunneling? Explain in brief history and equipment used for tunneling.	03 04	
	(c)	Write a note on accident investigation and prevention program		
Q.4	(a)	Explain Operating principle, components, construction, working, application, advantages-limitations of following Conveyors with neat sketch. a. Belt b. Escalators	07	
	(b)	Write Crushers types – characteristics matrix. OR		
Q.4	(a)	Explain with neat sketch. a. Crane with rotary pillar b. Cantilever crane	07	
	(b)	Explain Operating principle, components, construction, working, application, advantages-limitations of Excavator with neat sketch.	07	



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> Operating principle, components, construction, (b) Explain working, application, advantages-limitations of ready mix concrete plant with neat sketch.

- Q.5 (a) Explain Operating principle, components, construction, 07 working, application, advantages-limitations of following tunneling equipment with neat sketch.
 - a. Road header
 - b. Tunnel boring machine
 - (b) Explain Operating principle, components, construction, working, application, advantages-limitations of any kind of 07 cooling tower with neat sketch.

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