Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - WINTER • 2014

Subject Code: 180203 Subject Name: Special Purpose Vehicles			Date: 29-11-2014	
Ti	me: () tructio	02:30 pm - 05:00 pm Total Marks: Ons: Attempt all questions. Make suitable assumptions wherever necessary.	: 70	
Q.1	(a) (b)	Classify the special purpose vehicles and give the application of each. Explain the working of hydraulic brake system with neat sketch.	07 07	
Q.2	(a) (b)	Explain in detail the tracked vehicles used by armed forces. Draw the layout of solar vehicle and explain its working. OR	07 07	
	(b)	Explain the hydrodynamic steering system used in special purpose vehicles.	07	
Q.3	(a) (b)	List the various types of excavators and explain hydraulic excavator. Draw sketch of dozer and explain its purpose and working in detail. OR	07 07	
Q.3	(a) (b)	Explain construction of a shovel with neat sketch. Explain wheel loader with its application and list its attachments can be extended to wheel loader?	07 07	
Q.4	(a) (b)	Write the special features of tractor. Explain types of crane and explain characteristics of mobile crane. OR	07 07	
Q.4	(a) (b)	List the different types of implement used in tractors and explain any one. Draw a sketch of tractor and explain the complete layout of each and every component.	07 07	
Q.5	(a) (b)	Explain tracked vehicle and articulated vehicles. Give the difference between series hybrid and parallel hybrid vehicles. OR	07 07	
Q.5	(a) (b)	Explain electrical vehicles with neat sketch. Explain (1) multi axle vehicles (2) fifth wheel mechanism.	07 07	
