Seat No:

Enrollment No:

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY B.Tech., Winter 2019 - 20 Examination

Semester: 5 Subject Code: 03102330 Subject Name: Automotive Certification and Homologation		Date: 05/12/2019 Time: 10:30 am to 1:00pm Total Marks: 60
Instructions:		
1. All questions are compulsory.		
	gures to the right indicate full marks. ake suitable assumptions wherever necessary.	
	art new question on new page.	
01	ObjectiveTypeOvertions	(15)
Q.1	ObjectiveTypeQuestions . 1. ARAI standfor	(15)
	 India stand rank in the largest manufacturing of car around 	theworld
	3. NCAP standfor	the world.
	4. 1 horsepower =	
	5. BMEP stands for	
	6. Full form of ECE	
	7. Friction material used in brake pad is made up of?	
	8. Does homologation destroy the vehicle duringtest?	
	9. Define: Unladen weight	
	10. Full form of SRS	
	11. Coefficient of Adhesion of the track for coast down test is	
	(A) 0.8 (B) 0.4 (C) 1 (D) 0.6	
	12. In brake test, the force is applied at from the end of brake lev	er in 2 wheeler.
	(A) 45mm (B) 50mm (C) 25mm (D) 10mm	
	13. A vehicle is weighed in?	
	(A) Newton (B) Tonne (C) Kilogram (D) P	ound
	14. What would be measured by using plungertest?	
	• • • • • • • •	ability of tyre
	15. What is a telltale of hazard light?	
	(A) Red (B) Green (C)Yellow (D) Blue	
Q.2	Answer the following questions. (Attempt any three)	(15)
	A) Classify different types of dynamometers and explain any one.	
	B) Explain vehicle weighment test.	
	C) Explain evaporative emissions of vehicle.	
	D) Give the classification of vehicles.	
Q.3	A) List down various crash test and explain any two with neat diagrams.	(07)
	B) Explain active and passive safety systems.	(08)
	OR	
0.4	B) Explain pass-by noise test.	(08) (07)
Q.4	A) Explain headlamp alignment test with diagram.	(07)
	A) Explain types of seat helts with neat skatch	(07)
	A) Explain types of seat belts with neat sketch.B) Write a note on CMVR.	(07) (08)
		(08)