Paper / Subject Code: 42875 / Vehicle Systems (DLOC - III)

30-Dec-2023 10:30 am - 01:30 pm 1T01437 - B.E.(Mechanical) Engineering)(SEM-VII)(Choice Base Credit Grading System) ((R- 19) (C Scheme) / 42875 - Vehicle Systems (DLOC - III)

QP CODE: 10044442

[Max Marks:80] **Duration: 3hrs** N.B.: (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Illustrate your answer with neat sketches wherever necessary 1 Attempt any four from following five questions [05] Explain Toe-in and Camber with a neat sketch. b Describe Front engine Front Wheel drive with advantages and disadvantages [05] Explain principle of operation of overdrive [05] Discuss factors affecting tyre life. [05]Differentiate disc brake system with drum brake system. [05] Explain the construction and working of Lithium Ion battery. [10] Explain V2V system of communication in passenger cars [10] Explain telescopic shock absorber with a neat sketch. [10] Describe the construction and working of Recirculating Ball type steering gear [10] Describe tubeless tyre with its advantages over the tubed tyre. [10] Describe aerodynamic drag, lift and pitching moments. [10] What is the significance of differential? Describe its construction and working. [10] Describe the construction and working of Double Wishbone type of suspension [10] Describe construction and working of Constant Mesh gearbox. [10] Explain working Electronic ignition system [10]
