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88 8R 8R BR 8R R09 Code No: 09A60307 SR JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD B. Tech III Year II Semester Examinations, May – 2013 SPR **Automobile Engineering** (Common to ME, MCT) Max. Marks: 75 8R Time: 3 hours Answer any five questions BR All questions carry equal marks BR What are the different types of chassis used in automobiles? With a neat diagram 1.a) explain various parts of conventional type of chassis used in heavy vehicles. SEC Why oil pump is required in lubrication system? With a sketch explain the oil b) [15] pump construction and working principle. 8R Explain the construction and working principle of carburetor used in SI engine. 8R 2.a) Discuss various components of Diesel injection system in CI engine. [15]b) SIS BR What are the types of engine cooling systems? Explain cooling system used in 3.a) AR two wheelers. SPS With a circuit diagram explain battery ignition system of SI engine. [15]b) What are the merits and demerits of CNG and LPG gases used in automobiles? 4.a) What are the international norms for automobile pollution control? Explain. [15] RIG b) With a circuit diagram explain battery charging circuit in automobile. State 5.a) SR various components in charging circuit. Explain the process of measuring and displaying the engine temperature in FB b) [15] automobile. 364 BR With a neat sketch explain the working of multiplate clutch. State its advantages. 6.a) Draw neat sketch of four seed constant mesh gear box and explain working b) BR [15] principle. 8R 8R What are the different types of braking systems? Explain construction and 7. working of disc brake used in automobiles. [15] 87 BR

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What is steering geometry? Explain various parameters in steering geometry. [15]