## BE | sem VIII | AUTO | CBS GIS | Yehicle Safety | 13-12-1=

Q.P. Code :25502

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## [Marks:80] [Time: Three Hours] Please check whether you have got the right question paper. 1. Question.No.1 is compulsory. N.B: 2. Attempt any three out of remaining five questions 3. Figures to right indicates full marks. Answer any four of the following 0.1 Write a short note on 'Frontal collision' 5 In short Explain the term' Biomechanics and occupant simulation' b) 5 Explain the purpose of vehicle safety. c) 5 Explain how accident data is interpreted? d) 5 Write a short note on' Abbreviated Injury Scale' e) Explain the construction and working of ABS with neat sketch. 10 0.2 a) Write a note on 'Photogrammetry for accident Reconstructions. 10 b) 10 Write a note on Hazard-Risk-Danger" Q.3 10 Write a detail note on Accident reconstructions. 10 Compare quasistatic seat test and hydge sled test. Q.4 a) 10 Explain effectiveness of self-aligning Head Restraint b) 10 Explain any five illustrative human errors. 0.5 a)

Explain the term' Uncertainty in measurements.

Explain the injuries observed in various collisions.

Explain Universal and Alternative Design.

0.6 a)

b)