

Total No. of Questions : 6]

SEAT No. :

P204

Oct./BE/Insem. - 520

[Total No. of Pages : 2

B.E. (Mechanical)

AUTOMOBILE ENGINEERING

(2015 Course) (Semester - I) (402045 A) (Elective - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks
- 4) Use of electronic pocket Calculator is allowed.
- 5) Assume suitable data, if necessary.

- Q1)** a) Explain changing scenario in auto ancillary industries. [5]
b) Describe with neat sketch four wheel drive layout of automobile. [5]

OR

- Q2)** a) Describe constructional details of chassis used in two wheeler automobile. [5]
b) Explain the working principle of torque converter with suitable sketch. [5]

- Q3)** a) Draw a neat diagram of disc type wheel and compare with wire type wheel. [5]
b) Draw the different arrangement of rear axle drive and discuss their advantages with each other. [5]

OR

- Q4)** a) List out the causes of tyre wear and suggest the remedies to reduce the same. [5]
b) Draw a neat diagram of Recalculating ball type steering gear and explain its working. [5]

P.T.O.

Q5) a) Explain the working of hand brake system with simple diagram. Discuss advantages of this system. [5]

b) Explain the objectives of suspension system and explain role of dampers in suspension system. [5]

OR

Q6) Write short note on the following. [10]

a) Wheel Cylinder.

b) Rigid front axle suspension.

