

Total No. of Questions :9]

SEAT No. :

[Total No. of Pages :2

P2853

[4958]-1034

T.E. (Automobile)

Automotive Transmission

(2012 Course) (Semester - II)

Time : 2½ Hours

[Max. Marks :70]

Instructions to candidates:

- 1) *Questions Nos.1,2 and 3 are compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) Explain types of chassis with reference to power plant location. [3]

b) Sketch a chassis layout of Truck or Bus. Explain the function of each part. [3]

Q2) a) Explain the types of Clutches and its application. [3]

b) What do you mean by Gear selector mechanism? Explain any one of it. [3]

Q3) a) Enlist the different types of driveline. Explain any one. [4]

b) Explain constant velocity universal joint. [4]

Q4) a) What is need of final drive? Explain different types of final drives. [8]

b) Explain differential unit with neat sketch with all nomenclatures. [8]

OR

Q5) a) Explain briefly, with neat sketches. [8]

i) Half floating rear axle.

ii) Three quarter floating rear axle

b) What are the types of rear axle? Explain function of rear axle in brief.[8]

P.T.O.

- Q6)** a) Explain with neat sketch operating principle, construction and working of torque convertor. [10]
b) Write note on- Clutches and brakes in Epicyclie gear train. [8]

OR

- Q7)** a) Explain construction and working of Wilson Epicyclic gear train. [10]
b) Explain with neat sketch operating principle construction and working of Fluid flywheel. [8]

- Q8)** a) Differentiate between Hydramatic transmission and Continuous variable Transmission (CVT) [8]
b) Draw a layout of any one Transmission system and explain its function. [8]

OR

- Q9)** a) Compare Manual and Semi automatic transmission. [8]
b) Explain with neat sketch construction and operating principle of Continuous variable transmission (CVT). [8]

