

Total No. of Questions : 9]

SEAT No. :

P2239

[Total No. of Pages : 3

[5254]-570

B.E. (Automobile) (Semester -II)
VEHICLE PERFORMANCE & TESTING
(2012 Pattern)

Time : 2.30 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

- Q1)** a) What are the different types of ture wear patterns? Explain in Brief. [5]
- b) Draw simple layout of steering system. Explain the effect of steering system of vehicle performance. [5]

OR

- Q2)** a) Explain EGR system with the help of neat sketch. [5]
- b) What is function of suspenssion system? Enlist types of suspenssion system. [5]

- Q3)** Write a short note on- [10]
- i) High speed track
 - ii) Steering pad
 - iii) Mud track
 - iv) Deep weding through
 - v) Pot hole track

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OR

- Q4)** a) Explain Evaporetive emission testing with the help of neat sketch. [6]
b) Explain testing procedure for gear box. [4]

- Q5)** a) What are the different types of energy absorbtion systems use in vehicle?
Explain any one. [8]
b) Explain Adptive cruise system with the help of neat sketch. [8]

OR

- Q6)** a) Explain importance of Ergonomics in vehicle performance. [8]
b) What are the types of occupant safety systems are use in vehicle? Explain
any one. [8]

- Q7)** a) Why crash testing carried out in vehicle testing? Explain testing
procedure. [10]
b) Explain- [8]
i) Front impact
ii) Side impact
iii) Vehicle to vehicle impact

OR

- Q8)** a) Explain Data Acquisition system and Application of Data Acquisition
system in vehicle testing. [10]
b) Compare active safety and passive safety with four applications. [8]

Q9) Write a short note on- (any four)

[16]

- i) Engine Noise
- ii) Sensors use in vehicle testing
- iii) Tyre Noise
- iv) Noise, vibration and harshness
- v) Transmission Noise

