

Registration no:

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Total Number of Pages: 02

B.Tech
PCAT4205

4th Semester Back Examination 2016-17

AUTOMOTIVE CHASSIS

BRANCH: AUTO

Time: 3 Hours

Max Marks: 70

Q.CODE: Z539

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: (2 x 10)**
- a) What is toe-in and toe-out?
 - b) Differentiate between camber and castor.
 - c) Compare between Ackerman and Davis steering system.
 - d) What is a differential lock?
 - e) Differentiate between dependent and independent suspension system.
 - f) What is the function of tandem master cylinder?
 - g) What is the chassis construction used for SUV?
 - h) Why universal joint is used?
 - i) What is sprung mass?
 - j) Differentiate between drum and disc brake.
- Q2**
- a) What do you mean by chassis? Write down different loads on chassis frame. (2)
 - b) Explain different types of frames used for vehicle construction. (8)
- Q3**
- a) Derive the condition for true rolling motion for a steering system. (5)
 - b) A rack and pinion steering has a pinion of 16 mm pitch circle diameter. What effort must be applied on the 320 mm diameter steering wheel to overcome a resistance of 500 N experienced transversely on the track. (5)
- Q4**
- a) Draw a line diagram of transmission system for a rear wheel drive four wheel vehicle with neat sketch? (5)
 - b) What is the necessity of differential in a motor vehicle? Draw and discuss the working principle with neat sketch. (5)
- Q5**
- a) Explain working of telescopic type shock absorber with neat sketch. (5)
 - b) Write the construction of semi-floating rear axles. (5)

Bput 2012 Back Paper Question

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Bput 2012 Back Paper Question Book Review: Unveiling the Magic of Language

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