	1 -
(Following Paper ID and Roll No. to be filled in your	Printed Pages: 3
to be filled in your	NME-702

**Answer Books)** 

#### B.TECH

Paper ID: 2012301

Roll No.

### Regular Theory Examination (Odd Sem - VII), 2016-17 **AUTOMOBILE ENGINEERING**

Time: 3 Hours

Max. Marks: 100

Attempt all parts. Each question carries equal marks.  $(10 \times 2 = 20)$ 

Section - A

Define Gear Ratio?

What is an Automobile?

List application of Gear Mechanism?

Define castor angle?

Explain strength and stiffness? What is braking chain?

What is the main function Carburetor?

What is function of Fuel Injector?

What is meaning of Euro I and Euro II?

Explain fuel quality standards?

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### Section - B

# Attempt any 5 questions from this section $(5\times10=50)$

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- ত Write general configuration of an automobile.
- Explain automatic transmission with neat sketches in detail.
- ٩ C Explain types of starting motors and describe each describe each in brief. Explain different types of mechanical brakes and
- ဇ application of the same. What is a catalytic converter? List advantages and
- a neat sketch. Explain differential gear mechanism of rear axle with
- Draw and explain the steering geometry in detail.
- sketches Describe Akerman mechanism? In detail with neat

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#### Section - C

# Attempt any 2 questions from this section $(2 \times 15 = 30)$

Explain thermal expects related to braking system?

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sketch. Explain the main parts of an automobile frame with a neat

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giving application of each. Explain different types of suspension system? In detail

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engineering with neat sketches. Explain the provisions mode for lighting in automobile

Explain fuel of injector and fuel pump in detail with neat

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system? sketches. norms in India. Also explain the environment management Describe emission controls? Elaborate the commission

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