

Code No: 126EH

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, April - 2018

AUTOMOBILE ENGINEERING

(Common to ME, MCT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) Indicate the different types of vehicle body. [2]
- b) What aspects are to be considered in vehicle layout and drivers cabin? [3]
- c) How an electric horn works? [2]
- d) Explain briefly the construction and operation of the wind screen wiper. [3]
- e) What is a damper? [2]
- f) What is the function of torsion bar? [3]
- g) Upon what force does the operation of every type of brake depend? Explain? [2]
- h) What are steering ratio and steering stops? [3]
- i) What is road noise? How to reduce it? [2]
- j) What are the effects of carbon monoxide emissions from an automobile? [3]

PART - B

(50 Marks)

- 2.a) Explain briefly the constructional features of the various parts of a car body. [5+5]
 - b) Sketch the mechanical pump and describe its working. [5+5]
- OR**
- 3.a) How carburetors are classified? Explain the construction and operation of a simple Carburetor. [5+5]
 - b) Explain the working principle of a CRDI with neat sketch. [5+5]
- 4.a) Describe magneto ignition system with a neat sketch. [5+5]
 - b) What is the function of the spark plug? Explain its constructional features. [5+5]
- OR**
- 5.a) What is meant by firing order? Give the firing order of 4 and 6 cylinder engines. [5+5]
 - b) What is the purpose of a radiator in an automobile? Explain its construction. [5+5]
- 6.a) Explain the construction of stub axle and wheel mounting. [5+5]
 - b) What is hotch kiss and torque tube drive? [5+5]
- OR**
- 7.a) What is tractive effort? Why four wheel drive is used in some vehicles? [5+5]
 - b) Explain Dedion shaft drive mechanism with a neat sketch. [5+5]

Automobile Engineering Question Paper With Answer

Terry C. Jones



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Table of Contents Automobile Engineering Question Paper With Answer

1. Understanding the eBook Automobile Engineering Question Paper With Answer
 - The Rise of Digital Reading Automobile Engineering Question Paper With Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Automobile Engineering Question Paper With Answer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automobile Engineering Question Paper With Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automobile Engineering Question Paper With Answer
 - Personalized Recommendations
 - Automobile Engineering Question Paper With Answer User Reviews and Ratings
 - Automobile Engineering Question Paper With Answer and Bestseller Lists

5. Accessing Automobile Engineering Question Paper With Answer Free and Paid eBooks
 - Automobile Engineering Question Paper With Answer Public Domain eBooks
 - Automobile Engineering Question Paper With Answer eBook Subscription Services
 - Automobile Engineering Question Paper With Answer Budget-Friendly Options
6. Navigating Automobile Engineering Question Paper With Answer eBook Formats
 - ePub, PDF, MOBI, and More
 - Automobile Engineering Question Paper With Answer Compatibility with Devices
 - Automobile Engineering Question Paper With Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automobile Engineering Question Paper With Answer
 - Highlighting and Note-Taking Automobile Engineering Question Paper With Answer
 - Interactive Elements Automobile Engineering Question Paper With Answer
8. Staying Engaged with Automobile Engineering Question Paper With Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automobile Engineering Question Paper With Answer
9. Balancing eBooks and Physical Books Automobile Engineering Question Paper With Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automobile Engineering Question Paper With Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Automobile Engineering Question Paper With Answer
 - Setting Reading Goals Automobile Engineering Question Paper With Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Automobile Engineering Question Paper With Answer
 - Fact-Checking eBook Content of Automobile Engineering Question Paper With Answer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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