

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]

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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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web there are two basic types of acid base titrations indicator and potentiometric in an indicator based titration you add another chemical that changes color at the ph equal to the equivalence point when the acid and base are in stoichiometric proportions

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web acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

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web an acid base titration is a method of quantitative analysis for determining the concentration of an acid or base by neutralizing it using a standard solution of base or acid of known concentration a ph indicator is used to

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web an acid base titration is an experimental technique used to acquire information about a solution containing an acid or base hundreds of compounds both organic and inorganic can be determined by a titration based on their acidic or basic properties acid is titrated with a base and base is titrated with an acid

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web the titration of a weak acid with a strong base involves the direct transfer of protons from the weak acid to the hydroxide ion the reaction of the weak acid acetic acid with a strong base naoh can be seen below in the reaction the

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web as seen in the chapter on the stoichiometry of chemical reactions titrations can be used to quantitatively analyze solutions for their acid or base concentrations in this section we will explore the underlying chemical equilibria that make acid base titrimetry a

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web oct 1 2019 abstract titration is an analytical method used in biomedical sciences and analytical chemistry laboratories to determine the quantity or the concentration of a known or unknown substance there