

Sixth Semester B.E. Degree Examination, June/July 2019
Automobile Engineering

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- | | | |
|---|--|------------|
| 1 | a. With the help of PV diagram, compare SI and CI engines. | (06 Marks) |
| | b. With help of neat sketch give construction details of connecting rod. | (05 Marks) |
| | c. With help of neat sketch, explain pre-chamber type of combustion chamber. | (05 Marks) |

OR

- | | | |
|---|---|------------|
| 2 | a. Why cooling is necessary and what are different methods of cooling? | (04 Marks) |
| | b. Classify valve operating mechanisms and with the help of diagram, explain overhead inlet and side exhaust valve mechanism. | (06 Marks) |
| | c. Explain dry sump lubrication system, with help of neat sketch. | (06 Marks) |

Module-2

- | | | |
|---|---|------------|
| 3 | a. With the help of neat sketch explain multi-plate clutch. | (08 Marks) |
| | b. Sketch and explain Hotch Kiss Drive and also compare with torque tube. | (08 Marks) |

OR

- | | | |
|---|---|------------|
| 4 | a. Explain working of master cylinder of a braking system with the help of neat sketch. | (10 Marks) |
| | b. What is ABS? Explain with appropriate sketch. | (06 Marks) |

Module-3

- | | | |
|---|--|------------|
| 5 | a. Define following: (i) Camber (ii) Caster (iii) King pin inclination | (06 Marks) |
| | b. With the help of sketch explain Mac pherson strut type sub pension. | (10 Marks) |

OR

- | | | |
|---|---|------------|
| 6 | a. What are the requirements of Ignition system? | (04 Marks) |
| | b. Sketch and explain Electronic Ignition system. | (08 Marks) |
| | c. Compare Battery and Magneto Ignition system. | (04 Marks) |

Module-4

- | | | |
|---|---|------------|
| 7 | a. What do you mean by supercharging? Explain any one method of super charging. | (06 Marks) |
| | b. Explain centrifugal type of super charger. | (06 Marks) |
| | c. What are limitations of turbo charging? | (04 Marks) |

OR

- | | | |
|---|---|------------|
| 8 | a. What are fuel mixture requirements for SI engine? | (04 Marks) |
| | b. Explain working of Zenith carburetor. | (08 Marks) |
| | c. What are CRD engine? Explain principle of working. | (04 Marks) |

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Manoj Dole



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Table of Contents Hsbte Syllabus2015 Of Automobile Engg

1. Understanding the eBook Hsbte Syllabus2015 Of Automobile Engg
 - The Rise of Digital Reading Hsbte Syllabus2015 Of Automobile Engg
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsbte Syllabus2015 Of Automobile Engg
 - 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 Hsbte Syllabus2015 Of Automobile Engg
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsbte Syllabus2015 Of Automobile Engg
 - Personalized Recommendations
 - Hsbte Syllabus2015 Of Automobile Engg User Reviews and Ratings
 - Hsbte Syllabus2015 Of Automobile Engg and Bestseller Lists
5. Accessing Hsbte Syllabus2015 Of Automobile Engg Free and Paid eBooks

- Hsbte Syllabus2015 Of Automobile Engg Public Domain eBooks
 - Hsbte Syllabus2015 Of Automobile Engg eBook Subscription Services
 - Hsbte Syllabus2015 Of Automobile Engg Budget-Friendly Options
6. Navigating Hsbte Syllabus2015 Of Automobile Engg eBook Formats
- ePub, PDF, MOBI, and More
 - Hsbte Syllabus2015 Of Automobile Engg Compatibility with Devices
 - Hsbte Syllabus2015 Of Automobile Engg Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Hsbte Syllabus2015 Of Automobile Engg
 - Highlighting and Note-Taking Hsbte Syllabus2015 Of Automobile Engg
 - Interactive Elements Hsbte Syllabus2015 Of Automobile Engg
8. Staying Engaged with Hsbte Syllabus2015 Of Automobile Engg
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsbte Syllabus2015 Of Automobile Engg
9. Balancing eBooks and Physical Books Hsbte Syllabus2015 Of Automobile Engg
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsbte Syllabus2015 Of Automobile Engg
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsbte Syllabus2015 Of Automobile Engg
- Setting Reading Goals Hsbte Syllabus2015 Of Automobile Engg
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsbte Syllabus2015 Of Automobile Engg
- Fact-Checking eBook Content of Hsbte Syllabus2015 Of Automobile Engg
 - 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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