

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: AU402

Course Name: TWO AND THREE WHEELERS

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any three full questions, each carries 10 marks.

Marks

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| 1 | a) Compare between CI and SI Engines | (5) |
| | b) Compare between two stroke and four stroke engine based on its structure and working | (5) |
| 2 | Explain the construction and working of a two stroke diesel engine with functions of various engine components | (10) |
| 3 | a) What is the purpose of a fuel coke? Explain the working of a fuel coke | (6) |
| | b) Explain the advantages of electronic fuel injection over conventional fuel system | (4) |
| 4 | a) Describe petrol lubrication system used in two stroke engines | (5) |
| | b) What is meant by splash lubrication? Explain briefly. | (5) |

PART B

Answer any three full questions, each carries 10 marks.

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| 5 | Explain about multi plate clutch with neat sketch? | (10) |
| 6 | What is the difference between centrifugal and single plate clutch? Explain with neat sketches? | (10) |
| 7 | Explain about telescopic shock absorber with neat sketch? | (10) |
| 8 | a) Explain freewheeling devices used in two wheelers? | (5) |
| | b) Explain the needs of clutch in two and three wheelers? | (5) |

PART C

Answer any four full questions, each carries 10 marks.

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| 9 | a) Classify the brakes used in two wheelers | (2) |
| | b) Write the description about each one of the brakes? | (3) |
| | c) With the help of neat diagram explain the working of disc brakes | (5) |
| 10 | a) Write the different types of wheels used in two wheelers. | (5) |
| | b) Explain the advantages of each type of wheels used in two wheelers | (5) |

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| 11 | Draw and explain the brake actuation mechanism used in two wheelers | (10) |
| 12 | Explain the detail structure of delivery van | (10) |
| 13 | Explain the service and maintenance of two wheelers | (10) |
| 14 | a) Write short notes about the pick-up vans | (5) |
| | b) Explain the service and maintenance of any one type of van | (5) |
