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| UNIT REF: L1AM12 | | | LEARNER SUPPORT MATERIAL TASK SHEET:  **UNIT TITLE: LIGHT VEHICLE BRAKING SYSTEMS COMPONENTS AND MAINTENANCE** | | | | |
| Learner Name: | | | | | Date of Task: | | |
| **KNOWLEDGE QUESTIONS** | | | | | | | | |
| **Question Number** | | **Question** | | | | **AC** | **Marks Awarded** | |
| 1. | | Identify and state the purpose of the following main components used in braking systems: **(24 marks)** | | | | AC1.1-1.2 |  | |
| A. | MASTER CYL.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |
| B. | WHEEL CYL.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |
| C. | BRAKE CALIPER.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |
| D. | PRV.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |
| E. | SERVO.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |
| F. | FLEXI HOSE.JPG | | | Identify Part: | | | | |
| State purpose: | | | | |

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| **Question Number** | **Question** | **AC** | **Marks Awarded** |
| 2. | Draw two diagrams showing two different split braking systems:  **(12 marks)** | AC2.1 |  |
| A.  Master Cylinder | | | |
| B.  Master Cylinder | | | |
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| 3. | During moderate braking, what is the approximate brake force distribution between the front brakes and rear brakes? **(2 marks)** | AC2.1-2.2 |  |
| (Please circle the correct answer)  Front 20% Rear 80% Front 60% Rear 40% Front 80% Rear 20% | | | |

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| **Question Number** | | **Question** | **AC** | **Marks Awarded** |
| 4. | | Approximately when should brake fluid be changed? **(2marks)** | AC2.2 |  |
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| 5. | What does the term kinetic energy mean? **(2 marks)** | | AC2.1-2.2 |  |
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| 6. | What does the term coefficient of friction mean? **(2 marks)** | | AC2.1-2.2 |  |
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| 7. | State two advantages of a drum brake: **(4 marks)** | | AC2.2 |  |
| A |  | | | |
| B |  | | | |
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| 8. | State two advantages of a disc brake: **(4marks)** | | AC2.2 |  |
| A |  | | | |
| B |  | | | |
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