Week 4 Assessment

The due date for submitting this assignment has passed. Due on 2019-02-27, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which one of the following output sensor can be used for feedback purposes?

- MAP
- MAF
- Oxygen
- TPS

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Oxygen

2) A MAP sensor measures

- Air pressure
- Fuel pressure
- Manifold Absolute Pressure
- Manifold Air Pressure

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Manifold Absolute Pressure

3) Potentiometer is used in TPS for

- Measuring position of the throttle
- Measuring fuel injection rate
- Measuring piston position
- Measuring brake position

No, the answer is incorrect.
Score: 0
Accepted Answers:
Determining throttle position

No, the answer is incorrect.
Score: 0

Accepted Answers:
Controlling the fuel injection to an engine.

5) CAN is a

- Point to Point connection
- Multipoint shared connection
- Star topology
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Multipoint shared connection

6) For an audio entertainment system, which one of the following can be suitable according to automotive standards?

- Class A
- CAN
- LIN
- MOST

No, the answer is incorrect.
Score: 0

Accepted Answers:
MOST

7) Given that there is one anomaly related to rash driving, which of the following statement is true for the vehicle data shown in the table.

<table>
<thead>
<tr>
<th>Time (seconds)</th>
<th>Speed (Km/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>47.89</td>
</tr>
<tr>
<td>2</td>
<td>70</td>
</tr>
<tr>
<td>4</td>
<td>92</td>
</tr>
<tr>
<td>6</td>
<td>115</td>
</tr>
<tr>
<td>8</td>
<td>110</td>
</tr>
<tr>
<td>10</td>
<td>129</td>
</tr>
<tr>
<td>12</td>
<td>145</td>
</tr>
<tr>
<td>14</td>
<td>126</td>
</tr>
<tr>
<td>16</td>
<td>148</td>
</tr>
</tbody>
</table>

- Acceleration rate 2.98 m/s² and lower threshold is 2.95
- Deceleration rate 1.5 m/s² and upper threshold is 1.2
- Acceleration rate is 4 m/s² and upper threshold is 3.9
- Acceleration rate 3.1 m/s² and upper threshold is 3
- Deceleration rate 2.9 m/s² and upper threshold is 2.71
- Deceleration rate 1.9 m/s² and lower threshold is 3

No, the answer is incorrect.
8) An OBD-II scan shows that the data related to engine RPM, MAF, and coolant temperature are all within safe limits. If oxygen sensor is the only available feedback sensor, what are the possible anomalies that can be detected.

- Improper air/fuel mixture.
- Blockage of air filter.
- Improper ignition.
- Throttle positioning error.
- High acceleration rate.

No, the answer is incorrect.

Accepted Answers:
- Improper air/fuel mixture.
- Improper ignition.

9) Data indications-
- Speed - Threshold limit reached
- Oxygen - Threshold limit crossed
- Coolant Temperature - Below average
- Engine RPM - Above Average
- MAF - Above average

From the above given data, which of the following statements are true?

- Anomaly caused due to improper air/fuel mixing
- Anomaly caused due to improper combustion and missed ignition timing
- Anomaly caused due to rash driving
- Anomaly in throttle positioning system

No, the answer is incorrect.

Accepted Answers:
- Anomaly caused due to improper air/fuel mixing
- Anomaly caused due to improper combustion and missed ignition timing