### Week 2 Assignment

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

#### 1) Match the following.

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Innermost gear</td>
<td>i) Planet gear</td>
</tr>
<tr>
<td>B) Gear connected to transmission</td>
<td>ii) Sun gear</td>
</tr>
<tr>
<td>C) Connects sun and ring gears</td>
<td>iii) Ring gear</td>
</tr>
</tbody>
</table>

- A)-i), B)-ii), C)-iii)
- A)-i), B)-iii), C)-ii)
- A)-ii), B)-iii), C)-i)
- A)-ii), B)-i), C)-iii)

No, the answer is incorrect.

Score: 0

**Accepted Answers:**

- A)-ii), B)-iii), C)-i)

#### 2) Match the following.

<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Converted EV</td>
<td>i) Uses conventional motors</td>
</tr>
<tr>
<td>B) Dual Motor System</td>
<td>ii) No driving shaft</td>
</tr>
<tr>
<td>C) In wheel drive</td>
<td>iii) No differential</td>
</tr>
<tr>
<td>D) Longitudinal front wheel drive</td>
<td>iv) Heavyweight</td>
</tr>
</tbody>
</table>

- A)-i), B)-ii), C)-iii), D)-iv)
- A)-iv), B)-iii), C)-ii), D)-i)
- A)-ii), B)-iv), C)-i), D)-iii)
- A)-ii), B)-i), C)-iii), D)-iv)

No, the answer is incorrect.

Score: 0
<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>A) Transverse front wheel drive</td>
<td>i) Uses fixed gears</td>
</tr>
<tr>
<td>B) Dual motor system</td>
<td>ii) Stator is in rim</td>
</tr>
<tr>
<td>C) Outer rotor motor drive</td>
<td>iii) Compact</td>
</tr>
</tbody>
</table>

A) - iii), B) - i), C) - ii)  
A) - i), B) - iii), C) - ii)  
A) - ii), B) - ii), C) - iii)  
A) - ii), B) - iii), C) - ii)  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
A) - ii), B) - i), C) - ii)  

4) Answer in True/False.  
A) In parallel HEV, two motors are used.  
B) In ICE heavy series parallel HEV, only mechanical drivetrain is active during normal driving.  
C) In Front electric rear hybrid complex HEV, no battery charging takes place during lights loads.  
A) - True, B) - True, C) - False  
A) - True, B) - False, C) - False  
A) - False, B) - False, C) - True  
A) - False, B) - True, C) - True  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
A) - False, B) - True, C) - True  

5) Answer in True/False.  
A) In series HEV, battery can be charged at rest.  
B) In parallel HEV, both drivetrains are active during normal driving.  
C) In Front hybrid rear electric complex HEV, whole system is active in acceleration mode.  
A) - True, B) - True, C) - False  
A) - False, B) - True, C) - True  
A) - True, B) - False, C) - True  
A) - False, B) - True, C) - True  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
A) - True, B) - False, C) - True  

6) Answer in True/False.  
A) At low engine speeds, fuel consumption is high.  
B) In ICEV, we don't operate in optimal operation line.  
C) Complex HEV has 3 propulsion devices.  
A) - True, B) - False, C) - True  
A) - True, B) - False, C) - False  
A) - False, B) - False, C) - True  
A) - False, B) - True, C) - True  

No, the answer is incorrect.
7) Answer in True/False.
A) High power motors cannot be designed for lower voltages.
B) In fixed gear system, design of motor is very important.
C) Efficiency in variable gear system is high.

Score: 0
Accepted Answers:
A)-True, B)-False, C)-False

No, the answer is incorrect.
Score: 0
Accepted Answers:
A)-True, B)-False, C)-False

8) Answer in True/False.
A) In electric heavy series parallel HEV, battery is not used in normal driving.
B) Parallel HEV has dual axle transmission mechanism.
C) In straight drive, speed of both the motors is same, in dual motor system.

Score: 0
Accepted Answers:
A)-True, B)-False, C)-True

No, the answer is incorrect.
Score: 0
Accepted Answers:
A)-True, B)-False, C)-False

9) Answer in True/False.
A) With differential action, there is little sliding and wear tear of tyres.
B) Ultra capacitors are high voltage devices.
C) Fixed gear systems require high motor rating.

Score: 0
Accepted Answers:
A)-False, B)-False, C)-True

No, the answer is incorrect.
Score: 0
Accepted Answers:
A)-False, B)-False, C)-True

10) Answer in True/False.
A) In single motor systems, motor rating is low.
B) Ultra flywheels are high speed and low inertia flywheels.
C) In Front electric rear hybrid complex HEV, no battery charging takes place during lights loads.

Score: 0
Accepted Answers:
A)-True, B)-False, C)-False
No, the answer is incorrect.
Score: 0
Accepted Answers:
A)-False, B)-True, C)-False