Unit - 1

1.	 HEV stands for a. Hybrid Electronic Vehicle b. Hybrid Electrical vehicle c. Hybrid Environmental Vehicle d. None of the above 	(1 Mark)
	Ans:- b. Hybrid Electrical vehicle	
2.	In February 2019, the Union Cabinet cleared Rs 10,000-crore programme under a scheme. a. FAME II b. NACP c. ARAI d. VRDE	the (1 Mark)
	Ans:- a.FAME II	
3.	 ACC requires the driver to set the desired a. Noise b. Speed c. Vision d. All of the above 	(1 Mark)
4.	 Ans:- b.Speed introduces Active Passive Integration Approach for vehicle a. SAAB b. Continental c. Bosch 	(1 Mark)
	d. MCE5 Ans:- b. Continental	
5.	 Honda Civic is a Hybrid vehicle a. Micro b. Mid c. Series-Parellel d. Full 	(1 Mark)

Ans:- c. Series-Parellel

- 6. Mahindra Electric has released ----electric vehicles in the Indian market up to 2020 (1 Mark)
 - a. 2
 - b. 4
 - c. 6
 - d. 8

Ans:- b.4

Unit – 2

1.	In Drum type Boiler Feed water flow control by Three element	controller (1 Mark)
	a. Drum level	
	b. Steam Flow	
	c. Feed water flow	
	d. All of above	
	Ans:- d. All of above	
2.	Low NOx Combustion Technology Regulation in Japan for Coa	l Firing Boiler has reduced from
	400 ppm to	(1 Mark)
	a. 100ppm	
	b. 200ppm	
	c. 300ppm	
	d. 400ppm	
	Ans:- b. 200ppm	
3.	Benefits of Waste Heat Recovery	(1 Mark)
	a. Reduction in pollution	
	b. Reduction in equipment sizes	
	c. Reduction in auxiliary energy consumption	
	d. All of the above	
	Ans:- d. All of the above	
4.	Exhaust gas energy recovery in Electro turbo compounding (E)	(1 Mark)
	a. 10% Possible	
	b. 20% Possible	
	c. 30% Possible	
	d. 40% Possible	
	Ans:- b. 20% Possible	
5.	Factors affecting cooling of water in a cooling tower are:	(1 Mark)
	a. Temperature of air	. ,
	b. Humidity of air	

- c. Temperature of hot air
- d. All of the above

Ans:- d. All of the above

Unit – 3

1.	Smart manufacturing is a convergence of modern data science techniques and artificial			
	intelligence to form the factory of the future.	(1 Mark)		
	a. The statement is correct.			
	b. The statement is partially correct.			
	c. The statement is wrong.			
	d. None of them			
	Ans:- a. The statement is correct.			
2.	IoT can be applicable in	(1 Mark)		
	a. Predictive and preventative maintenance			
	b. Supply chain management			
	c. Inventories and logistics			
	d. All of them			
	Ans:- d. All of them			
3.	cause of translational errors occurred in CMM	(2 Mark)		
	a. Twisting error			
	b. Error in scale division			
	c. Roll error			
	d. Error in straightness			
	Ans:- d. Error in straightness			
4.	Software used for reverse engineering after 3D scanning is	(1 Mark)		
	a. Maya			
	b. 3D Max			
	c. CAD			
	d. all of the above			
	Ans:-			
5.	Liquid crystal elastomers 4D printing material achieve their activation due to	(2 Mark)		
	a. Light			
	b. Heat			

- c. Electrical
- d. All of the above

Ans:- d. All of the above

- 1. BEE Star rating is based on _____
 - a. Power consumption
 - b. Power Input
 - c. Power Out put
 - d. none of these

Ans: - a. Power consumption

2. ______is essentially aimed at establishing the existing pattern of energy consumption (1 Mark)

- a. Energy Monitoring
- b. Energy Targeting
- c. energy audit
- d. none of these

Ans:- a. Energy Monitoring

3. Detailed energy auditing is carried out in _____phases (1 Mark)

- a. One
- b. Two
- c. Three
- d. Four

Ans:- c. Three

4.	meter is used to measure Illumination level		(1 Mark)
	a.	Pyrometer	
	b.	Wattmeter	
	c.	Lux meter	
	d.	All	

Ans:- c. Lux meter

5.	As star rating	for energy efficient equipment	(1 Mark)
	a. 1 star		
	b. 5 star		
	c. 4 star		
	d. 2 star		

Ans:- b. 5 star

1. identify the equipment shown in fig

(1 Mark)



- a. Single action disc harrow
- b. Tandem disc harrow
- c. Off-set disc harrow
- d. Double action disc harrow

Ans:- a. Single action disc harrow

2. consists of dropping the seeds in furrow lines in a continuous flow and covering them with soil

(1 Mark)

(1 Mark)

- a. Broadcasting
- b. Drilling
- c. Dibbling
- d. Transplanting

Ans:- b. Drilling

- 3. It is a machine designed for harvesting, threshing, separating, cleaning and collecting grains while moving through standing crops (1 Mark)
 - a. Combine
 - b. Thresher
 - c. Harvestor
 - d. all of the above

Ans:- a. Combine

- 4. is also called as knife harrow.
 - a. Spring tooth harrow
 - b. Acme harrow
 - c. Spike tooth harrow
 - d. none of the above

Ans:- b. Acme harrow

- 5. India is the largest producer of -----in the world. (1 Mark)
 - a. Tractor
 - b. Bus
 - c. Truck
 - d. none of the above

Ans:- a. Tractor