Sample Question Paper 22652

Unit - 1

1. HEV stands for -------
   a. Hybrid Electronic Vehicle
   b. Hybrid Electrical vehicle
   c. Hybrid Environmental Vehicle
   d. None of the above
   Ans:- b. Hybrid Electrical vehicle

2. In February 2019, the Union Cabinet cleared Rs 10,000-crore programme under the --------- scheme.
   a. FAME II
   b. NACP
   c. ARAI
   d. VRDE
   Ans:- a. FAME II

3. ACC requires the driver to set the desired ---------
   a. Noise
   b. Speed
   c. Vision
   d. All of the above
   Ans:- b. Speed

4. --------- introduces Active Passive Integration Approach for vehicle
   a. SAAB
   b. Continental
   c. Bosch
   d. MCE5
   Ans:- b. Continental

5. Honda Civic is a --------------- Hybrid vehicle
   a. Micro
   b. Mid
   c. Series-Parellel
   d. Full
   Ans:- c. Series-Parellel

6. Mahindra Electric has released ----electric vehicles in the Indian market up to 2020
   a. 2
   b. 4
   c. 6
   d. 8
   Ans:- b.4
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 Coal Firing Boiler has reduced from 400 ppm to ____ (1 Mark)
   a. 100ppm
   b. 200ppm
   c. 300ppm
   d. 400ppm

   **Ans:** b. 200ppm

   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 (ETC) up to (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
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 _______________ (1 Mark)
   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)
   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. (1 Mark)
   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