

- Q.4 The storage capacity of battery measured in (CO3)
- Ampere-hour (Ah)
 - Watt-hour (Wh)
 - volt-ampere (VA)
 - Kilowatt-Hour (kWh)
- Q.5 What is the main difference between a simple EV and a Hybrid EV- (CO4)
- Simple EVs use gasoline
 - Hybrid have no electric motor
 - Hybrid EVs can use both gasoline & Electricity
 - Simple EVs have no battery
- Q.6 The regenerative braking system in EVs is mainly used for - (CO2)
- Reducing speed quickly
 - improving braking efficiency
 - storing kinetic energy back in the battery
 - boosting acceleration

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define primary cell. (CO3)

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- Q.8 Write two applications of Lithium ion battery. (CO3)
- Q.9 Writes two advantages of BLDC motor. (CO2)
- Q.10 Name two types of motor uses in Electric Vehicles. (CO1)
- Q.11 What is the function of a battery management system in an EV? (CO3)
- Q.12 Define Hybrid Electric Vehicle. (CO4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the advantages and disadvantages of Electric Vehicles. (CO1)
- Q.14 Write short note on solar charging system. (CO1)
- Q.15 Describe the safety precaution for handling and driving the electric vehicle? (CO3)
- Q.16 Explain different types of cooling system of Electric vehicles? (CO4)
- Q.17 What are the advantages and disadvantages of PMSM motor? (CO2)
- Q.18 Explain about dynamic wireless charging systems (DWCS). (CO3)
- Q.19 Discuss about the Ultra capacitor with diagram? (CO3)

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