

QUESTION BANK FOR

AT 2029 NEW GENERATION AND HYBRID VEHICLES

1. Differentiate Electric and hybrid vehicles.
2. Explain magnetic track vehicle with a diagram.
3. List the features of HCCI.
4. List the features of surface ignition engines.
5. Name a few high energy and power density batteries.
6. List the different types of fuel cells.
7. List the advantages of VVTI in engines.
8. Draw a solar panel and name the parts.
9. State the features of magnetic track vehicles.
10. Explain how computer control is used for pollution and noise control in a vehicle.
11. List the different types of sensors used in vehicles.
12. Explain how IT is used for receiving proper information and operation of the vehicle.
13. Define charge stratification.
14. Explain how a vehicle can be controlled for safe and fast travel using satellites.
15. Write a note on GPS.
16. List the features of FFV.
17. Explain how to construct and maintain national highway network with automated roads and vehicles.
18. Name different actuators used in vehicles.
19. Explain open and closed loop systems with simple diagrams.
20. Name different retarders used in vehicles.
21. Differentiate retarders from brake.
22. Explain the operation of ABS with simple diagrams.
23. Illustrate regenerative brake systems with a diagram.