DIPLOMA IN SMART CITY DEVELOPMENT AND MANAGEMENT (DSCDM)

Term-End Examination June, 2023

MIO-003 : SMART URBAN ENERGY AND SMART TRANSPORTATION SYSTEM

Time: 3 Hours Maximum Marks: 70

Note: Answer any seven of the following questions.

All questions carry equal marks.

- 1. (a) Discuss the grid applications of Battery storage. 5
 - (b) Describe Solar floating PV panels with the help of a neat sketch. 5
- Discuss the advantages and limitations of various clean energy options for the transportation sector.
- 3. Discuss the application of SCADA in energy transmission system.

4.		scribe the Bluetooth Beacon Technology with limitations. 10
5.	(a)	Explain the Personal Rapid Transit (PRT) system in detail.
	(b)	Describe the properties of Alert Management System. 5
6.	(a)	Discuss the impacts of CAVs on users and mobility. 5
	(b)	Explain the 5 V's of big data in brief. 5
7.		cuss the applications of IOT in apportation sector.
8.	(a) (b)	Explain the Smart Mobility System. 5 What are the advantages and limitations of BEVs? 5
9.	Write short notes on any <i>two</i> of the following:	
	(a)	Hybrid Electric Vehicles 5
	(b)	Current status of Electric vehicles in India 5
	(c)	B-Trac Scheme 5
	(d)	ITS technologies for smart city traffic management 5