

USN		18C	V655
	No.	Sixth Semester B.E. Degree Examination, Jan./Feb. 2023 Intelligent Transportation Systems	
ALOR Tim	ie: 3	3 hrs. Max. Marks	: 100
	No	ote: Answer any FIVE full questions, choosing ONE full question from each module	
1	a.	Module-1 What is Intelligent Transport System? Explain the different functional areas of Intelligent	elligent
	b.	Explain the challenges and opportunities for development of Intelligent transport sys	
		India. (10	Marks)
2	a.	Explain the different methods of data collection techniques adopted in Intelligent tra	ansport Marks)
	b.	Explain the different types of Detectors or Sensors used in Intelligent transport system (10)	l. Marks)
3	a.	Module-2 What are the different ITS tools which can be used in Traffic management system in	a city.
	b.		Marks) Marks)
		OR	
4	a.		aveller Marks)
	b.	Mention the ITS applications in the field of Intermodal freight transport system. (10  Module-3	Marks)
5	a.	Explain the following in the context of ITS architecture:  (i) Logical architecture.  (ii) Physical architecture.	Marks)
	b.	Mention the functional areas and functions of European ITS frame work architecture.	Marks)
		OR	
6	a.		Marks)

Mention the requirements for urban transportation plan and ITS planning. Explain. (10 Marks)

Module-4

Explain the need of training and education for implementation of ITS.

Discuss the impact of standards implementation for technology deployment in ITS. (10 Marks) 7 a.

(10 Marks)

		OR	
8	a.	Explain advanced vehicle control and safety systems in ITS.	(10 Marks)
	b.	Explain sustainable mobility in ITS.	(10 Marks)
5.5		Module-5	
9	a.	Explain the process of electronic Toll collection system.	(10 Marks)
	b.	Mention the benefits of Automated Highway System (AHS).	(10 Marks)
		OR	
10	a.	Explain briefly Road Pricing and Platoons in ITS.	(10 Marks)
	b.	Explain with a case study for implementation of ITS in developing country.	(10 Marks)

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