APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY

08 PALAKKAD CLUSTER

Q. P. Code: TE0822224-I

(Pages: 2)

Name:

Reg. No:

SECOND SEMESTER M.TECH. DEGREE EXAMINATION JULY

Branch: Civil engineering

Specialization: Transportation Engineering

08CE6224 Intelligent Transportation Systems

Time: 3 hours

Max. Marks: 60

Answer all six questions.

Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question.

Q. No.	Module 1	Marks
1. a	Describe the functions of ITS?	3
	Answer b or c	
b	Briefly explain the commercial vehicle operations?	6
c .	Discuss about the architectures involved in ITS ?	6
Q. No.	Module 2	Marks
2. a	What are the advantages of route guidance	3
•	Answer b or c	
b	Define and explain route guidance system and its classification?	6
, C	What are variable message signs and explain it based on its performance?	6
Q. No.	Module 3	Marks
3. a	Explain the uses of electronic payment system?	3
	Answer b or c	
b	Describe the working of dynamic speed adaptation?	6
c	Write a short note on different active and passive tags?	6

Q. No.	Module 4	Marks
4. a	Write down the facts about Adaptive cruise control system?	3
to,	Answer b or c	
b	Note down the roles of GIS in ITS?	6
c	List and explain the essential characteristics of different ITS systems?	6
Q. No.	Module 5	Marks
5. a	Describe AHS and its characteristics?	4
× 1.	Answer b or c	
b	Explain the 5 layer architecture control systems for AHS with help of flow chart?	8
c	Write a short note on any one of the vehicle platooning systems to reinforce the concept of AHS?	8
Q. No.	Module 6	Marks
6. a	Explain any one of the application of fleet management?	4
	Answer b or c	
b	Justify the statement, ITS approach is an best method for solving problems related transportation.	8
. c	Demonstrate applications of ITS in India?	8