## APJ ABDULKALAM TECHNOLOGICAL UNIVERSI

## **08 PALAKKAD CLUSTER**

Q.P.code:TE2181

(pages: 2)

Name:

Reg No:

SECOND SEMESTER M.TECH. DEGREE EXAMINATION APRIL

**CIVIL (Transportation Engineering)** 

08CE6224

INTELLIGENT TRANSPORTATION SYSTEM

Time: 3 hours

Max.marks: 60

Answer all six questions. Part 'a' of each question is compulsory. Answer either part 'b' or part 'c' of each question

Q.no. Module 1 Marks Elucidate ITS system architecture? 3 Answer b or c Explain different ITS user services? Write short note on i) Rural ITS ii)Public transportation operations Q.no. Module 2 Marks Briefly describe about pre trip information service? 3 Answer b or c Explain vehicle to center communication in advanced traveller information 6 system? c Explain different data collection techniques in intelligent transportation system?.

Q.no.	Module 3	Marks
3.a	Explain electronic toll collection system?	3
b	Answer b or c Write short note on i) incident management ii) intelligent speed adaptation	6
С	Write short note on i) Dynamic routing ii) metering	6

Q.no.	Module 4	Marks
4.a	Enumerate different ITS system components	3

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## Answer b or c

Explain positioning system for ITS? Q.P.code: IE2181 Describe about the role of GIS in ITS? SECOND SEMESTER MITECH, DEGREE ÉXAMINATION ÁBRIL 2018 CIVIL (Transportation) Marks Q.no. What are the characteristics of ideal AHS? 5.a Answer b or c Time:3 hours 8 Write about challenges involved in the implementation of automated highway systems Explain control design theory of AHS? Module 1 Q.no Module 6 Q.no. Elucidate ITS system architecture 6.a Briefly explain collision warning system Answer b or c Explain the possibilities of ITS in India b Explain the relationship between problems, conventional approach and ITS C. approach extell 2.a Briefly describe about one trip information service? b Explain vehicle to confir communication in advanced mayeller information c Explain different data collection techniques in intelligent transportation system? Module 3 3.a Explain electronic foil collection system Answer bionic b Write short note en it incident management c. Write short note on i) Dynamic routing