APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY

08 PALAKKAD CLUSTER

Q.P.CODE:-TD2181

(Pages 2)

Name: UTHURU

Reg No:

SECOND SEMESTER DEGREE EXAMINATION APRIL 2018

CIVIL (Transportation Engineering)

08CE6214 GIS AND ITS APPLICATIONS IN TRANSPORTATION ENGINEERING

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

Module 1

1.a Which are the different applications of GIS	3
Answer b or c	
b. Which are the differences between vector data and raster data	6
c. Explain the different types of Cylindrical projections with neat sketches	6
Module 2	
2.a Which are the different topology rules	3
Answer b or c	
b. Write a note on different types of Raster data models	6
c. Explain Vector data model.	6
Module 3	
3.4 What do you mean by the terms accuracy, precision, and uncertainty?	3
b. Which are the various sources of errors, and how to assessment of GIS data quality	6
c.Explain different resampling methods	6
Module 4 A a What do you mean by the terms (i) Slivers (ii) Pattern analysis	3
4.a What do you mean by the terms (i) Slivers (ii) Pattern analysis	3
b. Explain spatial data and attribute data queries in GIS	6

c. Explain Vector dat	a analysis LACALOUOLOGICAL Sisk and a state of the control of the	6
	Module 5	
5.a Write down the	pplications of GIS in location of transport terminals and roadsic	de facilities 4
b. Explain application	ns of Aerial and Satellite imageries in transportation engineering	g 8
c. Explain Intelligent	information system for road accessibility study	410 8 3040
ins. marks: 60	Module 6	ood Esanil
	ferent application of GIS in utility management	4
b. Explain GIS based	Highway alignment, GIS based road network planning	8
c. Explain GIS applic	ations in environment impact assessment and environment mon	itoring
	Answer b or c	8
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8 A	you mean by the terms (a) Silvers (b) Pattern analysis	4.a What do
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