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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
07 THRISSUR CLUSTER

SECOND SEMESTER M.TECH. DEGREE EXAMINATION APR 2018
CIVIL ENGINEERING DEPARTMENT
WATER RESOURCES AND HYDRO INFORMATICS
07CE6406 REMOTESENSING

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
1a	Write a short note on orthophotos.	4
	Answer b or c	
b	What is photographic scale? Two road intersections shown on a photograph can be located on a 1:25000 scale topographic map. The measured distance between the intersections is 47.2 mm on the map and 94.3 mm on the photograph. What is the scale of the photograph? At that scale, what is the length of a fence line that measures 42.9mm on the photograph?	5
c	What is relief displacement? Derive an expression for the object height determination from relief displacement measurement.	5
Q.no.	Module 2	Marks
2a	Explain various components of remote sensing.	4
	Answer b or c	
b	Explain about various segments in GPS.	5
c	What is the significance atmospheric windows in remote sensing.	5
Q.no.	Module 3	Marks
3a	Write short note on various elements of visual image interpretation.	4
	Answer b or c	
b	Differentiate between spatial resolution and spectral resolution.	5
c	What is the significance ground truthing in remote sensing ?	5

Q.no.	Module 4	Marks
4a	Discuss about the geometric corrections applied in image restoration.	4
Answer b or c		
b	Explain the various techniques of contrast manipulation in image enhancement.	5
c	What is meant by spatial filtering? Explain with examples	5
Q.no.	Module 5	Marks
5a	Write short note on classification accuracy assessment.	5
Answer b or c		
b	Explain about supervised classification of the digital image.	7
c	Write short note on classification of mixed pixels.	7
Q.no.	Module 6	Marks
6a	Explain the role of remote sensing in land use land cover mapping	5
Answer b or c		
b	Discuss about the relevance of remote sensing in the modern world.	7
c	Write short note on application of remote sensing in the field of water pollution detection.	7