REV-00 MDM /02 /06

MA DISASTER MANAGEMENT Second Semester Basics of Remote Sensing and GIS (MDM- 06)

Duration: 3Hrs. (PART-B: Descriptive)	Full Marks: 70
Duration: 2 hrs. 40 mins.	Marks: 50
[†] I. Answer any five from the following question:	2×5=10
1. Give the full form of ·	
a) GPS b) LIDAR	
2. Define Kinetic temperature.	
3. Define Emissivity.	
4. What is Thermal remote sensing?	
5. What is Plateform?	
6. Define Parallex?	
7. What is Photogrammetry?	

II. Answer any five from the following question: $3 \times 5 = 15$

- 1. What are the different aspects of data acquisition?
- 2. What are the different factors controlling radiant temperature. Give diagram in support.
- 3. Write a note on Sun-synchronous satellite.
- 4. What are the difference between Map and Aerial photograph.
- 5. What are the different types of Photo interpretation keys.
- 6. Define: Flying height, Focal length, Principal point, Nadir point.
- 7. What are the aspects of controlling the mode of thermal data acquisition?

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2013/02

III. Answer any five from the following question:

5×5=25

- 1. Describe the different application of GIS and Remote sensing in Disaster management?
- 2. Describe all the types of plateform with the help of diagram?
- 3. What is Resolution? Discuss briefly about all the types of resolution?
- 4. Explain different types of Aerial photograph? Give diagram in support.
- 5. Calculate the scale of the photograph above 700 mt. from the mean sea level, where the focal length is 200 mm and flying height is 2700 mt.
- 6. Discuss about the application of photogrammetry.
- 7. What are the different segments of GPS? Explain them with proper diagram.

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Second Semester

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(The figures in the margin indicate full marks for the questions)

Duration: 20 minutes

c) Panchromatic photograph

(PART A- Objective)

Choose the correct option for the following questions: 1x20=201. Match the following: $1 \times 4 = 4$ Launched by Earth system satellite a) LANDSAT I. French Remote sensing satellite b) SPOT II. NASA c) IRS III. European Remote Sensing Satellite IV. Indian Remote sensing. d) ERS 2. Geostationary satellite is located at very high altitude. True/ False 3. The science of acquiring processing and interpreting images that record the interaction between Electro magnetic energy and matter is a) Remote sensing b) GIS c) Digital image d) Remote sensing system 4. Which of the following is not the agencies for carrying out the aerial photography in India a) National Remote Sensing Agency, Hyderabad b) Air Survey company, Calcutta c) Indian Air Force d) None of these 5. Vector and Rastar data are used for d) All the above a) Remote Sensing Application b) GIS c) GPS 6. Aerial photograph isa) Two dimensional optical model of the terrain b) One dimensional optical model of the terrain c) Three dimensional optical model of the terrain d) All of these 7. Which of the following is not the type of aerial photograph? a) Vertical photograph b) Oblique photograph

d) None of these

2013/02

Marks - 20

8. The scale of the aerial photographs of a flat terrain depends upon-

i. Height of the air craft

		0						
	ii.	Focal length of the c	amera					•
	Co	des: a) 1 is true	b) 2 is t	true c) Bo	oth are tr	ue d) Both	h are false	
9.	Mat	tch the following:						
	Scale of MapSize of Mapa) 1:50,000i. Small							
	b)	1:25,000	ii.Medium					
	c) 1:10,000 iii.Large				e Net 19 - A.			
10.	Mat	tch the following:						
		Colours on satellite Ir	nagery		Inter	pretation		
	a)	Dark Red			i. Spa	rse forest		
	b)	Light Red			ii. Den	se forest		
	c)	Black			iii. Sec	liments		
	d)	White / Light blue			iv. Wa	ter bodies		
11.	Emi	issivity is denoted by	0	-3.4123 				
	a) e	epsilon (ε)	b) epsi	lon (3)	c) epsile	on (è)	d) epsilon (€)	
12.	Em	issivity of most of the	e natural	l materials rang	ges betwe	en		
	a)	0.07 - 0.095	b) 0.7 -	- 0.95	c) 0.7 –	9.5	d) 0.07 – 0.95	
13.	Emi	issivity of a black bod	ly is					
	a)	1 standa) gange	b) 0.1		c) 0.01		d) 0.001	
14.	The	e space segments cons	sists of _	satellite	es			
	a)	21	b) 29		c) 27		d) 39	
15.	Ho	w many unmanned m	onitor st	tations are requ	ired in C	õPs		
	a) 5	5	b) 6		c) 7		d) 8	
16.	Tria	angulation is required	for dete	ermining		9 1997 - Sala Area		
	a)	Position and time		b) Position		c) Time	d) Distan	ce from satellite
17.	Wh	nere ISRO is situated						
	a) D	Dehradun		b) Hyderabad	Alexandri	c) Bangalore	d) Chenn	ai

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