

VIDYASAGAR UNIVERSITY

M.A/M.Sc. 2nd. Semester Practical Examination-20
GEOGRAPHY AND ENVIRONMENT MANAGEMEN

Full Marks-25

Tin

GEO- 206; Unit-XXIV (Application of Remote Sensing in

Answer the following questions

1.
 - a) What are the important sources of digital data?
 - b) What are the file formats in which images are stored?
 - c) Distinguish between the principles adopted in supervised and unsupervised digital image.
 - d) What is band ratioing? Give its significance with respect to NDVI.
 - e) How is spatial resolution of an image related to pixel size?
2. Prepare a landuse/land cover map of the area represented by the image using supervised method of classification and properly label the features.
3.
 - a) Draw spectral signature curves for each of the landuse/land cover classes. Question No. 2.
 - b) Create a vector layer on the given image to visualize the principal features within it.
4. Laboratory Note Book and Viva-voce

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GEO- 206; Unit-XXIII (Social Thematic Mapping)

Answer the following questions

1. Prepare a crop diversity map for the coastal Blocks of Purba Medinipur and interpret its spatial variability. 4 + 2

C.D. Blocks	Area (in Hect.) under different crops (2005)						
	Aman	Aus	Boro	Jute	Khesari	Maskalai	Musta
Khejuri-II	10242	54	1028	457	114	25	25
Ramnagar-I	7916	785	3955	224	517	34	180
Ramnagar-II	8960	1457	5357	3	213	54	2
Egra-I	8988	4358	5928	546	2789	49	45
Egra-II	6489	2515	5753	445	12	19	210
Contai-I	5094	2548	2531	1688	34	112	174
Deshapran	3625	3564	3503	2154	16	64	58
Contai-III	4279	4897	3125	1654	1859	112	10

2. Discuss the method of bank margin soil profile analysis with examples from the coastal region of Purba Medinipur.
3. With the help of the given data (Census, 1981), calculate the HDI of different states and compare the result with the distribution of female population and interpret it. 5

Sl no.	State	Life Expectancy	Adult literacy	Per capita State Dom
1	Andhrapadesh	58.0	32.5	647
2	Assam	52.4	43.6	558
3	Bihar	54.1	29.4	441
4	Gujrat	56.8	48.3	904
5	Haryana	60.8	39.2	1060
6	Himachal Pradesh	56.6	43.6	711
7	Jammu & Kashmir	56.8	29.9	642
8	Karnataka	60.6	43.0	687
9	Kerala	67.6	78.1	621
10	Madhyapadesh	52.4	35.6	516
11	Maharashtra	60.2	51.8	957
12	Orissa	53.0	38.7	477
13	Panjab	64.3	42.6	1354
14	Rajasthan	55.1	28.2	535
15	Tamilnadu	58.1	50.4	584
16	Uttar Pradesh	49.1	30.8	519
17	West Bengal	56.6	48.1	797

Geography & Environment Management
Practical Examination- GR-206, Unit-XX
M.A / M.Sc, SEMESTER-II, 2011

Computer Applications

Marks-25

1. Arrange the tidal data of Bhanderkhali station in ascending order of tidal range and live storage. Interpret the result.

Month	Extreme (High Tide Level) H.T.L	Extreme L.T.L (Low Tide Level)
January, 2010	194cm	-236cm
January, 2010	134cm	-167cm
February, 2010	242cm	-273cm
March, 2010	252cm	-294cm
March, 2010	276cm	-266cm
April, 2010	262cm	-273cm
May, 2010	236cm	-240cm
June, 2010	256cm	-208cm
July, 2010	254cm	-242cm
August, 2010	170cm	-422cm
September, 2010	135cm	-407cm
October, 2010	115cm	-373cm

2. With help of the given text file, complete the following exercises
- Separate the text into two columns
 - Insert page number
 - Change line space into 1.5
 - Change font type from New Roman to Calibri
 - Inset bullet to the highlighted points
 - Inset a picture within the text, supplied in the folder
 - Align the text to both the left and right margins.

3. Following table shows production of different crops of four years. Draw a suitable diagram to show comparison and analysis

Block	Types of crop and Production in ton (2010)				Total
	Rice	Wheat	Sugarcane	Oilseed	
Shyampur	425	25	5	15	589
Daspur	365	45	9	18	698
Badhuria	589	36	8	19	458
Deyganga	236	12	7	17	356

4. Laboratory note book and Viva Voce

VIDYASAGAR UNIVERSITY

MA/MSc 2nd. Semester Practical Examination

Course No. GEO- 206

Unit- XXI: Computer Basics

Full Marks- 25

Answer the following questions:

1. a) Classify the software used in computer systems and describe their functions.
b) Write an algorithm for finding out the difference between two numbers in a given set of numbers.
2. a) What is a logic gate? Give the structures of the fundamental logic gates and their truth tables.
b) Convert $(1E.C)_8$ to its equivalent hexadecimal number.
c) Subtract 0100.11 from 1011.1 using 2's complement.
d) Find the binary product of: 101.1×11.01
3. a) Using DOS commands make a directory in E drive put a sub-directory under the above directory and put a file in that sub-directory. Now create a document file in the sub-directory with the following information in text format-

Your Roll No:

Version of the Operating system:

Number of files and folders in C drive:

Space used in C drive:

- b) Write the commands used for the above job in the answer sheet.
4. Laboratory Note Book and viva-voce