Massachusetts Institute of Technology - Department of Urban Studies and Planning

11.520: A Workshop on Geographic Information Systems
11.188: Urban Planning and Social Science Laboratory

In-Lab TEST - November 22, 2004

Name: _____ UserID: _____

QUESTION I-1:

What is the maximum number of votes received by George Bush in any
one county: _____

For that county, what is the state_____, county name_____,
and
FIPS code_____ for that county.

How many votes did John Kerry receive in that county?
_____

How many counties are there in California? _____

What is the smallest number of votes received by George Bush in any
one of the 48 contiguous US states:? _____

What is the name of that state? _____

How many votes did John Kerry receive in that state? _____

Explanation of method (in case numbers are wrong and you'd like
partial credit):

QUESTION I-2:

(I-2-A): Coordinate system explanation:

(I-2-b): Two noticeable changes in map:

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QUESTION I-3: Difference in averages:
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QUESTION I-4:
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(I-4-A): Explain all the Blue counties:




(I-4-B): Explain the Red coasts:




(I-4-C): Explain a better thematic map:




QUESTION II-2:
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(II-2-A): Number of Ohio counties with interstates: _____


(II-2-B): Fill in the blanks

              Number of                        Difference
Ohio          Counties   Bush-Votes Kerry-Votes (Bush-Kerry) Total-Votes
Bush-% Kerry-%
----------------------------------------------------------------------
--------------|
With
|
interstates                                      -49,822
----------------------------------------------------------------------
--------------|
Without
|
interstates                                      186,305
60.7   39.3  |
----------------------------------------------------------------------
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All counties          2,796,147  2,659,664  136,483      5,455,811
51.3   48.7  |
------------------------------------------------------------------
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Explanation of method (in case numbers are wrong and you'd like partial credit):

(II-2-C): Interpret results for counties with/without interstates:

QUESTION II-3:

(II-3-A): Average of PDTPOOR across Ohio counties: _____

(II-3-B): PCTPOOR for counties with Bush Percent > 60%:
          Number of Counties_____; Mean_____; standard deviation_____

Explanation of method (in case numbers are wrong and you'd like partial credit):

QUESTION II-4:

(II-4-A): Grid cell furthest from interstates:
          Distance:_____; County:_____; Bush-%:_____