

(091) Math 131:First Quiz Test-IV (5.123-8.12): December 19, 2009

Dr. Latif and Dr. Raja Latif and Dr. Mohammad Latif and Dr. Abdul Latif

Contents

Marks: 20; Time: 20 Minutes

NAME:.....

I.D.#:

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SERIAL# SECTION #: (Sec.07)

<i>Check</i> ✓ or ○	<i>Sc</i> 05 11 <i>am</i>	<i>Sc</i> 06 01 <i>pm</i>	<i>Sc</i> 07 02 <i>pm</i>
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NOTE: SHOW ALL STEPS OF THE SOLUTION.

NO CREDIT FOR ANSWERS WITHOUT COMPLETE SOLUTION.

The questions are not in any order of difficulty at all.

Only the nonprogramable calculators are allowed.

Write the simplified answer of each question at the end of each question.

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Q.1.(Marks: 8).148BZB75. You have saved \$ 8000 toward the purchase of a car costing \$ 10000.

How long will the \$ 8000 have to be invested at 9 % compounded monthly to grow to \$ 10000?

(Round up to the next-higher month if not exact).

Number of Months =  $M$  = .....

Q.2. (Marks : 3 + 3 = 6). 373BZB41. How many different license plates are possible if each contains 4 letters (out of the 26 letters of the alphabet) followed by 3 digits (from 0 to 9)?

Number of different license plaes:.....

How many of these license plates contain no repeated letters and no repeated digits?

Number of License Plates:.....

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Q.3. 386BZB56.(Marks : 3 + 3 = 6). How many 4–person committees are possible from a group of 8 people if

(a) There are no restrictions?

Number of committees:.....

(b) Both Jim and Mary must be on the committee?

Number of committees:.....