

(083) Math 131:Finite MathematicsQuizTest-I(5.1-2-8.1-2): August 18.2009

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Contents

Marks: 15; Time: 15 Minutes

NAME:.....

I.D.#:

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SERIAL# SECTION #: (Sec.02A)

02A		09 20 <i>am S2</i>	10 20 <i>am S1</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: 3+3). Subcommittee. A committee has four male and six female members.

In how many ways can a subcommittee of four be selected if

(a) exactly three females are to serve on it?

Number of Ways:.....

(b) all four females are to serve on it?

Number of Ways:

Q.2. (Marks : 8 + 1). (Cash Flows-205-19).

An initial investment of \$ 16000 in a business guarantees the following cash flows:

Sr. No.	Year	Cash Flows
01	2	\$ 2000
02	4	\$ 4000
03	6	\$ 6000
04	8	\$ 8000

Assume an interest rate of 8 % compounded quarterly.

Find the net present value of the cash flows.

Is the investment profitable? (Why).

Net Present Value: = Dollars.

Is the investment profitable?

Check one:

YES	OR	NO
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