



Merged_ACTU462_11_422 2) (نماذج الرياضيات الاكتوارية) (Actuarial Mathematical Models (2))

Tests, Surveys, and Pools

Pool Canvas : Quiz 1 DIMDD

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Instructions

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QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

Question types



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=13000, i=0.062$



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=2000, i=0.051$



Details:



Question Type:
Calculated Numeric

Default Points:


1

	QUESTION TEXT	QUESTION TYPE	DEFAULT POINTS																
<input type="checkbox"/>	<p>For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)</p> <table border="1"> <thead> <tr> <th>x</th> <th>$l_x^{(1)}$</th> <th>$l_x^{(2)}$</th> <th>$l_x^{(3)}$</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>2000</td> <td>20</td> <td>60</td> </tr> <tr> <td>41</td> <td>-</td> <td>20</td> <td>50</td> </tr> <tr> <td>42</td> <td>-</td> <td>40</td> <td>-</td> </tr> </tbody> </table> <p>(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.</p> <p>Calculate the level annual net premium P for this insurance given the following parameters $b=10000, i=0.059$</p>	x	$l_x^{(1)}$	$l_x^{(2)}$	$l_x^{(3)}$	40	2000	20	60	41	-	20	50	42	-	40	-	Question Type: Calculated Numeric	Default Points: <input type="text" value="1"/>
x	$l_x^{(1)}$	$l_x^{(2)}$	$l_x^{(3)}$																
40	2000	20	60																
41	-	20	50																
42	-	40	-																

Details: 

Copy of

<input type="checkbox"/>	<p>For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)</p> <table border="1"> <thead> <tr> <th>x</th> <th>$l_x^{(1)}$</th> <th>$l_x^{(2)}$</th> <th>$l_x^{(3)}$</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>2000</td> <td>20</td> <td>60</td> </tr> <tr> <td>41</td> <td>-</td> <td>20</td> <td>50</td> </tr> <tr> <td>42</td> <td>-</td> <td>40</td> <td>-</td> </tr> </tbody> </table> <p>(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.</p> <p>Calculate the level annual net premium P for this insurance given the following parameters $b=3000, i=0.052$</p>	x	$l_x^{(1)}$	$l_x^{(2)}$	$l_x^{(3)}$	40	2000	20	60	41	-	20	50	42	-	40	-	Question Type: Calculated Numeric	Default Points: <input type="text" value="1"/>
x	$l_x^{(1)}$	$l_x^{(2)}$	$l_x^{(3)}$																
40	2000	20	60																
41	-	20	50																
42	-	40	-																

Details: 



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS


Copy of

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	l_x^0	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	20	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=4000, i=0.053$

Question Type:
Calculated Numeric

Default Points:


1

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	l_x^0	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	20	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=5000, i=0.054$

Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS


For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=6000, i=0.055$



Details: 

Question Type:
Calculated Numeric

Default Points:

1


For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=7000, i=0.056$



Details: 

Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS


Copy of

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$l_x^{(0)}$	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	30	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=8000, i=0.057$

Question Type:
Calculated Numeric

Default Points:

1


Copy of

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$l_x^{(0)}$	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	30	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=9000, i=0.058$

Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS


Copy of

For a 3-year fully discrete term insurance of b on (50) subject to a double decrement model: (i)

x	$l_x^{(0)}$	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	30	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=11000, i=0.060$

Question Type:
Calculated Numeric

Default Points:

1


Copy of

For a 3-year fully discrete term insurance of b on (50) subject to a double decrement model: (i)

x	$l_x^{(0)}$	$q_x^{(1)}$	$q_x^{(2)}$
40	2000	20	60
41	-	30	50
42	-	40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters $b=12000, i=0.061$

Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=1000, i=0.05$



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=14000, i=0.063$



Details:



Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=16000, i=0.065$



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=15000, i=0.064$



Details:



Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

**Calculate the level annual net premium P for this insurance given the following parameters
b=18000, i=0.067**



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

**Calculate the level annual net premium P for this insurance given the following parameters
b=17000, i=0.066**



Details:



Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT
POINTS

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters
 $b=19000, i=0.068$



Details:

Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters
 $b=21000, i=0.070$



Details:

Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=20000, i=0.069$



Question Type:
Calculated Numeric

Default Points:

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=22000, i=0.071$



Question Type:
Calculated Numeric

Default Points:



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

**Calculate the level annual net premium P for this insurance given the following parameters
b=23000, i=0.072**



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

**Calculate the level annual net premium P for this insurance given the following parameters
b=24000, i=0.073**



Details:



Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS


For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=25000, i=0.074$



Details: 

Question Type:
Calculated Numeric

Default Points:


For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=26000, i=0.075$



Details: 

Question Type:
Calculated Numeric

Default Points:



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=27000, i=0.075$



Details:



Question Type:
Calculated Numeric

Default Points:

1

For a 3-year fully discrete term insurance of b on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.20	0.60
41	-	0.20	0.50
42	-	0.40	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.

Calculate the level annual net premium P for this insurance given the following parameters $b=28000, i=0.077$



Details:



Question Type:
Calculated Numeric

Default Points:

1



QUESTION TEXT

QUESTION TYPE

DEFAULT POINTS

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.0	0.0
41	-	0.0	0.0
42	-	0.0	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters
b=29000, i=0.078

Question Type:
Calculated Numeric

Default Points:


1

For a 3-year fully discrete term insurance of 6 on (40) subject to a double decrement model: (i)

x	$q_x^{(1)}$	$q_x^{(2)}$	$q_x^{(3)}$
40	0.000	0.0	0.0
41	-	0.0	0.0
42	-	0.0	-

(ii) Decrement (1) is death. Decrement (2) is withdrawal. (iii) There are no withdrawal benefits.



Details: 

Calculate the level annual net premium P for this insurance given the following parameters
b=30000, i=0.079

Question Type:
Calculated Numeric

Default Points:

1

Delete

Points

Update

Question Display 

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