COMP 7802 \_ 1B Darasirikul Varis

```
1) \lambda = Morch 31,2007
b = April 29,2007
c
d = 10,000
e = 10,094,9564
f = 30,603,2679
g = 20808,8514
h = 1146,5608
i = -8941,5066
```

2) DATE (Start Date, A21\*12) (Because of Annual)

b. EDATE (Start Date, A31\*6) (Sevil Annual)

2). D. WORK DAY (EDATE (Start Date, Az1\*12), 1,9 Holiday (\$A\$1: AA\$56)

6, WORKDAYCEDATE (Stort\_Date, A 31 \* 6), O, Holiday ! \$A\$1:\$A\$56

C. Notional Amount \* Pay Fixed (Annual)

d. 2,500,000

e. Notional-Amount \* Previous\_LIBOR\_fixing \* 0.5

f. (Notional-Amount \* Pay-Fixed) \* VLookup (B21, discount Factor

g. -76,173,943

h. 78,035,435

i. 1,859,492,

```
3. 2. At = OPTION (ife / Steps)
= (0.08333)
DF = e^{C-rAt}
= 0.99992
CU = e^{(VOI \times rAT)}
= 1.05638
CI = 1/U
= 0.94663
CI = 0.50529
```

$$\begin{array}{l}
b, V_1 = MAX (S-X_10) \\
&= 9.81 \\
V_2 = 6.04 \\
V_3 = 2.66 \\
V_4 = 0 \\
V_5 = D + \times C P V_1 + (1-P) \times V_2 \\
&= 7.93 \\
V_6 = 4.36 \\
V_7 = 1.34 \\
V_8 = 6.15 \\
V_9 = 2.86 \\
V_{10} = 4.51
\end{array}$$

= 0,163>

= 0.0687625

$$M(A_{1}) = 0.434984$$

$$N(A_{2}) = 0.432614$$

f). For given Period to option expiry
abino mial Model will converge to Black-Scholes
model as the number of branches increases.

$$4 (3) \times t = LN(S_{t}(S_{t-1}))$$

$$\times_{1} = LN(35.85/40.25)$$

$$= -0.115766$$