

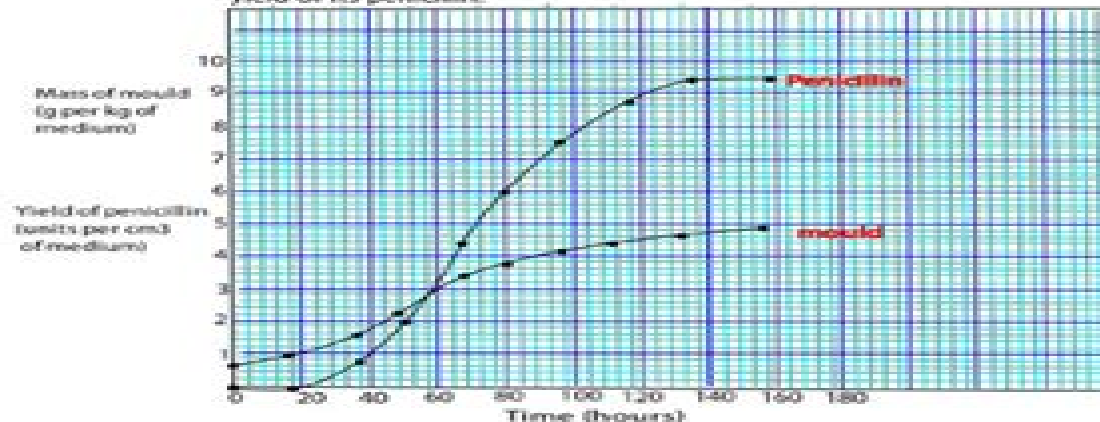
A-level

UACE Biology 2001 paper 2

1. Growth of two micro-organism in a culture media and yield of their products was analyzed. The table below shows the growth of the yeast *saccharomyces* and the yield of its product ethanol.

Time (hours)	Mass of yeast (g per dm ³ of medium)	Yield of ethanol (g per 100cm ³ of medium)
0	1	0.2
2	1.4	0.4
4	2.4	0.6
6	4.2	1.3
8	5.9	2.5
10	6.2	2.8
12	6.1	2.6
14	5.8	2.2

Graph 1 show the growth of the ascomycete mould *Penicillium* and the yield of its penicillin.



Use the data to answer the questions that follow.

- Represent the information in the table graphically (06marks)
Use your graph and graph 1, to answer questions (b) – (f)
- Describe the pattern of growth of the mould and yeast (06marks)
- Give two differences in the growth pattern of mould and yeast (4marks)
- Explain what is happening in the growth of yeast population during each of the following period
 - 0 – 2 hours
 - 4 – 6 hours
 - 8 – 10 hours
 - 12 – 14 hours
- Describe the relationship between the
 - Growth of the mould and the yield of penicillin
 - Growth of yeast and production of ethanol
- State three ways in which the pattern of accumulation of penicillin graph 1 differs from the pattern of

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Carole Hooven



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