

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For the following qualifications :-

B. Eng.

M. Eng.

Biochemical Eng E121: Industrial Biochemical Engineering

COURSE CODE : **BENGE121**

UNIT VALUE : **0.25**

DATE : **10-MAY-02**

TIME : **10.00**

TIME ALLOWED : **2 hours**

02-C0098-3-60

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TURN OVER

Answer **three** out of five questions

ALL questions carry a total of **25 MARKS** each, distributed as shown []

1. Describe the key issues important in developing a successful marketing strategy in the life sciences industry and use an appropriate example to illustrate your points. [25]

2. Answer all parts:
 - a) What are the requirements of a patentable invention? Illustrate your answer by using an example in the life sciences sector. [15]
 - b) What are the grounds for revocation of a patent? Illustrate your answer by using an example in the biotechnology sector. [10]

3. What key issues should be considered when undertaking the preliminary technical and commercial evaluation of an idea in the biopharmaceutical sector? Use an example to illustrate your answer. [25]

4. Describe the benefits and drawbacks of outsourcing in the life sciences industries using manufacturing as an example. [25]

5. Describe factors which make a good business plan for a start-up company with a new therapeutic product in mind. [25]

END OF PAPER