Write your name here Other names Sourcement Centre Number Candidate Number Pearson Edexcel Level 3 GCE Biology B Advanced Paper 1: Advanced Biochemistry, Microbiology and Genetics Specimen Paper for first teaching September 2015 Pager Reference Time: 1 hour 45 minutes 9BI0/01 You may need a ruler, pencil and a calculator. **Total Marks**

Instructions

- · Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer all questions.
- Show your working in any calculation questions and include units in your answer where appropriate.
- Answer the questions in the spaces provided
 there may be more space than you need.
- You may use a scientific calculator.
- In questions marked with an asterisk (*), marks will be awarded for your ability to structure your answer logically showing how the points that you make are related or follow on from each other where appropriate.

Information

- The total mark for this paper is 90.
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 - use this as a guide as to how much time to spend on each guestion.

Advice

- Read each guestion carefully before you start to answer it.
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Non-Waste Feedstocks Ozcan Konur, 2023-12-22 This book aims to inform readers about the recent developments in production evaluation and utilization of bioethanol fuels from non waste feedstocks It covers the production of bioethanol fuels from first generation starch feedstocks and sugar feedstocks grass biomass wood biomass cellulose biosyngas and third generation algae In this context there are nine key sections where the first four chapters cover the production of bioethanol fuels from feedstocks at large and non waste feedstocks This book shows that pretreatments and hydrolysis of the non waste feedstocks fermentation of hydrolysates and separation and distillation of bioethanol fuels are the fundamental processes for bioethanol fuel production from these non waste feedstocks with the exception of the biosyngas feedstocks This book is a valuable resource for the stakeholders primarily in the research fields of energy and fuels chemical engineering environmental science and engineering biotechnology microbiology chemistry physics mechanical engineering agricultural sciences food science and engineering materials science biochemistry

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