

MIC 311 Practical test 1

Time allocation: 90 Minutes

Total marks: 70 Marks

Answer all questions

Question 1

- Three forms of culture media (liquid, semi-solid and solid) have specified functions, give the specified function for each of these forms of culture media. (6 marks)
- There are three growth media types: selective, differential, and enrichment media; specify the difference between these media. (3 marks)
- Practical one of MIC 311 covered the media types, give the names of media used in the practical, and classify them according to the types mentioned in b. (3 marks)
- Eosin methylene blue agar is used to differentiate between lactose and non-lactose fermenters. Give the expected colony colours (morphology) in EMB and explain why the bacteria exhibit these colours. (6 marks)
- Give two (2) essential rules to keep in a laboratory lab. (2 marks)

Question 2

- Discuss the bacterial growth curve. (10 marks)
- Define generation time. (2 marks)
- Give the formula used to calculate the generation time using the direct method.
$$G = 2.303 \log 2 / [\log b - \log 8]$$
 (2 marks)
- Give the expected generation time for *E. coli*. (1 mark)

Question 3

- In nutrient agar plates, bacteria exhibit different morphological traits. Give the expected morphological characteristics in nutrient agar plates and highlight the mechanisms of growth leading to such characteristics. (10 marks)

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Lei Shi



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