

3.5 Write **three** types of pathogenic flagellates and name one species for each type. (18 marks)

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3.6 What is the pharmacological treatment for acute, fulminating amoebiasis? (17 marks)

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4.1 List the steps involved in the fermentation process. (10 marks)

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4.2

4.2.1 List the characteristics of continuous (*Chemostat*) fermentors. (10 marks)

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4.2.2 Draw a diagram of a continuous (*Chemostat*) fermentor. (10 marks)

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4.3 List the characteristics of a Batch Fermentation System? (10 marks)

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4.4 List **five** antibiotics produced using fermentation method together with the corresponding microorganism. (10 marks)

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4.5. List the **four** main methods of sterilization and state **two** articles sterilized by each method.

(24 marks)

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4.6 List **four** examples of hospital associated infections and state the mode of transmission of these infections.

(16 marks)

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4.7 Briefly describe how a pharmacist can contribute to minimize the spread of health care associated infections.

(10 marks)

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