

FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
THE ACADEMIC YEAR 2023/2024 – SEMESTER II



BACHELOR OF PHARMACY HONOURS
FMU6207- DRUG DEVELOPMENT- LEVEL 6
FINAL EXAMINATION
DURATION: TWO (02) HOURS

DATE: 18TH OCTOBER 2024

TIME: 2.00 P.M. – 4.00 P.M.

Part – B – Short Answer Questions - (20 Marks)

1.

1.1 What is a “blockbuster drug”? (02 marks)

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1.2 State what are “Small molecule drugs”. (02 marks)

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1.3 State what are “Large molecule drugs/ Biopharmaceuticals/ Biologics”? (02 marks)

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1.4 Briefly explain what is done in the “pre-clinical phase”. (04 marks)

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Index No.....

2.

2.1 What is considered a new drug?

(02 marks)

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2.2 List two (02) features, a druggable target should possess.

(04 marks)

I

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II.....

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2.3 List two (02) main advantages of using biopharmaceuticals.

(04 marks)

I

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II.....

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Part C – Structured Essay Questions - (60 Marks)

Answer all questions.

1.
 - 1.1 List the key steps in involved lead optimization. (10 marks)
 - 1.2 Briefly explain what a candidate profile is for a drug candidate. (05 marks)
 - 1.3 List three (03) common parameters to be optimized during lead optimization. (06 marks)
 - 1.4 Briefly explain two (02) methods to identify drug targets for diseases. (09 marks)

2.
 - 2.1 What are the four (04) classes of nanomaterials? Provide an example for each class. (08 marks)
 - 2.2 Briefly explain the use of gold nanoparticles (AuNP) in cancer diagnosis and therapy. (12 marks)
 - 2.3 Compare the structure-based drug design and ligand-based drug design. (10 marks)