FMU6207 – DRUG DEVELOPMENT – LEVEL 6
FINAL EXAMINATION
DURATION: TWO (02) HOURS

DATE: 06TH SEPTEMBER 2023 **TIME: 1.30 P.M. – 3.30 P.M.**

Part B – 02 Short Answer Questions (20 Marks)

1.

1.1 State three (03) advantages of using biopharmaceuticals. (03 marks)

I .....

II.....

III.....

1.2 Write three (03) typical parameters in a lead target profile. (03 marks)

I .....

II.....

III.....

1.3 Write four (04) methods used to identify drug targets. (04 marks)

I.....

II.....

III.....

IV.....

2.

2.1 List four (04) information available in an investigator's brochure related to clinical trials. (04 marks)

I.....

II.....

III.....

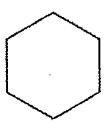
III.....

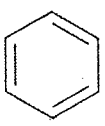
2.2 What are the two (02) main approaches to making nanomaterials? (02 marks)

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2.3 Write the SMILES line notation for Cyclohexane and Benzene. (04 marks)





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Part C – 02 Structured Essay Questions (60 Marks)

1.

1.1. List four (04) characteristics of small molecules useful for targeting RNAs. (04 marks)

1.2. State five (05) characteristics of a Lead molecule. (05 marks)

1.3. What are the references for Biosimilars and Biobetters? (09 marks)

1.4. Discuss the importance of patenting new drug molecules. (12 marks)

2.

2.1. Compare the structure-based drug design and Ligand-based drug design. (06 marks)

2.2. What are the applications of the Molecular Interaction Field (MIF)? (06 marks)

2.3. What are the four (04) classes of nanomaterials? Provide an example for each class. (08 marks)

2.4. Briefly explain the use of gold nanoparticles (AuNP) in cancer diagnosis and therapeutics. (10 marks)