THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2019/2020 – SEMSETER I

089

BACHELOR OF PHARMACY HONOURS
FMU5207 – INTRODUCTION TO PHARMACEUTICAL RESEARCH – LEVEL 5
FINAL EXAMINATION
DURATION: TWO (02) HOURS

DATE: 21ST SEPTEMBER 2020 TIME: 01.30 P.M. – 03.30 P.M.

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Part B – 02 SAQs (20 marks)

1.

1.1 What is "external validity of a research"? (02 marks)

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1.2 What is "internal validity of a research"? (02 marks)

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1.3 Define the term "variable". (03 marks)

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1.4 Name three (03) types of scales which can be used to quantify and record variables.

(03 marks)

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2.

Imagine you are interested in conducting a research to test the effectiveness of a new drug "A" to reduce high blood pressure. You administer the drug "A" to a group of patients and a placebo to another group of patients.

2.1 How would you name the two (02) different patient groups used in the above study. (02 marks)

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2.2 What type of experimental study design is used in above mentioned scenario? (01 mark)

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2.3 Differentiate "double-blind study" and "single- blind study". (02 marks)

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2.4 Briefly state the main purpose in the following phases of clinical trials. (05 marks)

Phase I –

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Phase II –

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Phase III –

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Phase IV–

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Part C – 02 SEQs (60 marks)

1. Imagine that you are interested in conducting a research on "Whether communication skills of pharmacists working in diabetes clinics in Western Province is related to the quality of education they provide to patients on prescribed medications". Based on this research question answer the following.

1.1 Write the general objective of this research. (05 marks)

1.2 State two (02) measurements which can be used to answer the research question. (05 marks)

1.3 Write the alternate and null hypotheses you are going to test in this research. (05 marks)

1.4 What is the best study design you choose to conduct the above study? (03 marks)

1.5 Briefly explain the reasons for selecting the study design you mentioned in the 1.3 (06 marks)

1.6 Briefly explain the sampling strategy you are going to use in this research and explain why you have selected that sampling strategy. (06 marks)

2.

2.1 List and explain common criteria used to evaluate scientific research. (10 marks)

2.2 State two (02) criteria that fulfil a good hypothesis. (04 marks)

2.3 State with reasons, whether principles of research ethics are different to expected standard of behaviour in society. (06 marks)

2.4 Why plagiarism is considered unethical in research? (05 marks)

2.5 Research on sensitive topics (e.g. death, sex) is not in itself unethical. Explain. (05 marks)