



The Open University of Sri Lanka
Department of Medical Laboratory Sciences
BMLS (Hons) - Level 5
MDU5308 Research Methodology
Final Examination - 2018/2019

Return your question papers with the answer sheets

Date: 26.02.2019

Duration - 03 hours

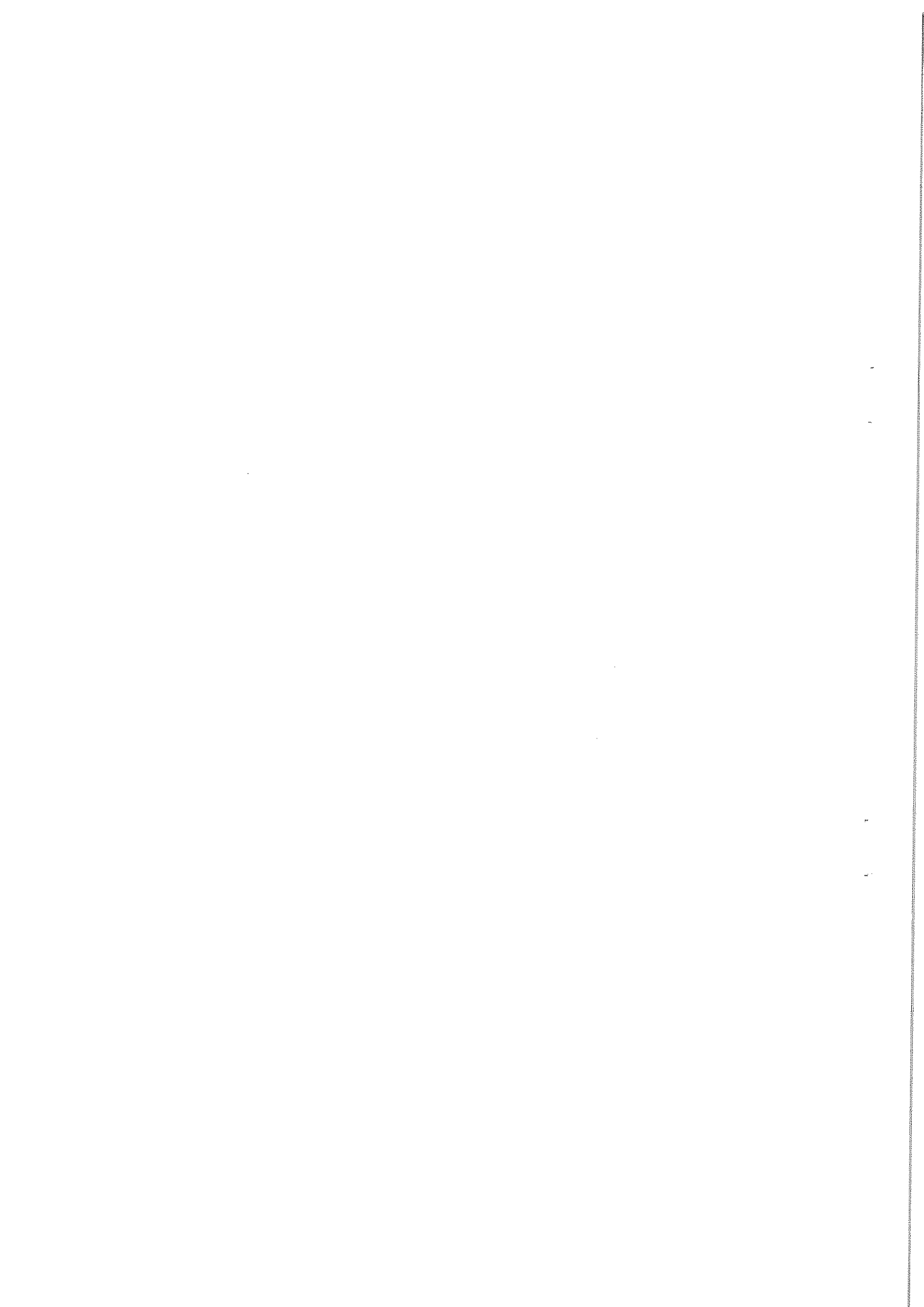
Time: 1.30pm – 4.30pm

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Part B – Matching Questions - 10 marks

Match each words or phrases given in the left column with one of the most suitable descriptions given in the right column. Indicate the letter corresponding to your response in the give space. (Within brackets)

- | | | |
|-----------------------------|-----|---|
| 1. Situational contaminants | () | (a) descriptive and inferential statistics |
| 2. Mode | () | (b) interviews, questionnaires, and scales. |
| 3. Descriptive study | () | (c) test hypothesis and casual relationships |
| 4. Quantitative design | () | (d) interpretation of findings |
| 5. Qualitative design | () | (e) hypothesis is not present |
| 6. Self-Report Measurement | () | (f) presence of the researcher |
| 7. Hawthorn effect | () | (g) the generalizability of results is questionable |
| 8. Experimental design | () | (h) artificial nature of setting |
| 9. Discussion of a study | () | (i) most frequently occurring score |
| 10. Nonprobability sampling | () | (j) narrative data analysis and content analysis |



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Part C - Short Answer Questions. Write answers to all within the given space (40 marks)**1) 1.1** There are two (02) main research designs in quantitative experimental research. What are they?

i (2 marks)

ii

1.2 List three (03) quantitative non-experimental research designs. (3 marks)

i ii

iii

1.3 There are five (05) external factors that the researcher can try to hold constant for each subject especially in quantitative research studies. What are they? (5 marks)

i ii

iii iv

v

2) 2.1 What are the three (03) main research designs in qualitative research? (3 marks)

i ii

iii

2.2 There are three (03) important concepts that should be considered when planning the design of a study. What are they? (3 marks)

i ii

iii

2.3 Write down the four (04) qualities that are assessed to maintain the rigor of a qualitative study. (4 marks)

i ii

iii iv

3) 3.1 Name the six (06) methods which can be used to control personal characteristics in a research study. (6 marks)

i ii.....

iii iv.....

v..... vi.....

3.2 Name the five (05) threats to internal validity. (4 marks)

i ii.....

iii iv.....

v.....

4) 4.1 When initiating a research study, we need to develop a research proposal. Then what are the two (02) major purposes of developing a research proposal (2 marks)

i

ii.....

4.2 Write down eight (08) major areas/topics under which you should write your research proposal. (8 marks)

i ii.....

iii iv.....

v..... vi.....

vii..... viii.....

Part D - Structured Essay Questions. Write answers within the given space (20 marks)

1. "Maternal smoking is related to premature labour in primiparous mothers." This is a hypothesis of a well-known study. Answer the following questions based on this study.

1.1 Identify and write the variables and types of variables of this study. (04 marks)

Variable	The types of variables

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1.2 What are the type of hypothesis stated above? (04 marks)

i.....

ii

1.3 If you want to conduct a research study based on the above hypothesis, what would be the most suitable research design, purpose and the research question?

Research Design

Purpose

Research Question

(06 marks)

1.4 When you are going to conduct this study you need to maintain the internal and external validity of the study. Define internal and external validity

Internal Validity.....

External validity

(06 marks)

00016