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THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL EXAMINATION CENTRE

SAMPLE

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THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL EXAMINATION CENTRE
THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES



BACHELOR OF MEDICAL LABORATORY SCIENCES- LEVEL 05 - 2019/20
MDU 5308-RESEARCH METHODOLOGY
NO BOOK TEST - 02

DATE: 11th March 2020

DURATION: 1.5 HOURS
TIME: 2.30 p.m. – 4.00 p.m.

REGISTRATION NO:

This question paper consists of 9 pages with 10 Multiple Choice Questions (Part A), 04 Short Answer Questions (Part B) and 01 Essay Question (Part C).

IMPORTANT INSTRUCTIONS TO CANDIDATES

- Write your Registration Number in the space provided.
- Answer **ALL** questions.
- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in the relevant cage.
- **Short Answer Questions (Part B):** Write answers within the space provided.
- **Essay Questions (Part C):** Write answers in the answer sheet provided.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and the electronic equipment are not allowed and requested to keep outside.

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REGISTRATION NO:

ANSWER SHEET FOR PART A

Q. No.	(a)	(b)	(c)	(d)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				



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Part A – Multiple Choice Questions

(10 marks)

1. Choose the most suitable answer and indicate with a 'X' in the answer sheet provided.

1. Research methodology is the path to
 - (a) provide a framework for a research study
 - (b) prepare a plan to conduct research.
 - (c) conduct a research forum
 - (d) disseminate knowledge in the research area

2. A strong research design is
 - (a) crucial to a successful research proposal
 - (b) crucial to analyze the data
 - (c) used to collect reliable data
 - (d) a guide for a good proposal

3. Which one of the following statement is **correct** with regard to the research methods? It is
 - (a) a plan to answer the research question
 - (b) a method to test the protocols
 - (c) important for the researchers to initiate collaboration
 - (d) a strategy used to implement the research plan

4. Data collection
 - (a) is the process of gathering and measuring information on variables
 - (b) depends on researcher's interest
 - (c) involves same process for different discipline
 - (d) helps the researchers to decide their research methodology

5. Which one of the following is important for creating a research design?
 - (a) Resource persons and collaborators
 - (b) Application of software package
 - (c) Location of the sample collection and the time frame
 - (d) Location of the laboratory and the standard protocols



6. Select the **correct** statement with regard to the research design.
- (a) It explains different research techniques
 - (b) It involves with data collection method to carryout overall research
 - (c) It is a procedure that are used to collect and analyze data
 - (d) It is an overall structure of the research study
7. Which one of the following method is considered to be the best method in quantitative research methods?
- (a) Observations
 - (b) Surveys
 - (c) Interviews
 - (d) Focused group discussions
8. **Select** the website which is used to obtain research articles.
- (a) SAGE methods
 - (b) Swiss Prot
 - (c) NCBI
 - (d) PUBMED
9. Which one of the following statement is **correct** with regard to the scientific journals?
- (a) High impact factor journal is not suitable to publish the research output
 - (b) Credible journal is not suitable to publish the quality research
 - (c) OUSL journal is not a science cited indexed journal
 - (d) Scope of the journal doesn't provide the relevant information about the Journal
10. The OUSL library web service
- (a) currently provides software to detect the plagiarism
 - (b) is involved in writing research proposal for the students
 - (c) provides local network framework to access the journal articles
 - (d) provides selected databases to access the journal articles



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REGISTRATION NO:

Part B –Short Answer Questions

(80 marks)

2. Write answers in the space provided.

2.1 (i) What is meant by the term “Research Design”? (5 Marks)

(ii) Give the main differences between the research design and research method. (5 Marks)

(iii) Select five (05) the most frequently used research methods. (10 Marks)



2.2 (i) Give **two (02)** reasons why data collection is an important process in research methods (6 marks)

(ii) Explain the key aspects considered in collecting data? Explain. (10 marks)

(iii) Give different **types** of data that could be used in the research methodology. (4 marks)



2.3 (i) Give **four (04)** reasons why library resources are important to carry out a research project. (8 marks)

(ii) What is meant by the term “Plagiarism”? (4 marks)

(ii) Give **two (02)** Software which could be used to detect “Plagiarism”? (8 marks)



2.4 (i) Which **type** of Journal that you would select in publishing your research findings?
Explain why?

(5 marks)

(ii) What is meant by “High Impact Factor (HIF) Journal?”

(5 marks)

(iv) Give **two (02)** Journal names which could be used to publish the health sciences related research findings.

(v) Indicate a Science Citation Indexed Journal (SCI) which is available in Sri Lanka.



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REGISTRATION NO:

Part C – Essay Question

1. Describe the importance of using the library resources for the followings.
 - (a) Writing Research Proposals (5 marks)
 - (b) Publishing Research Findings (5 marks)



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