



00121

THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF NURSING  
ACADEMIC YEAR 2020/2021 – SEMSETER I



BACHELOR OF SCIENCE HONOURS IN NURSING  
NGU6311- RESEARCH IN NURSING - LEVEL 6  
FINAL EXAMINATION

DATE: 09<sup>TH</sup> MARCH 2022

TIME: 9.30AM- 12.30PM

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Part B - Matching Questions (10 Marks)

Match the words/phrases given in the left column with one of the most relevant phrases given in the right. Indicate the letter corresponding to your response in the given space on the left.

Left		Right
1. Hypotheses that can be tested	( )	A. Internal validity
2. Hypotheses that cannot be tested	( )	B. Empiricism
3. Evidence gathered through human senses	( )	C. Case-control studies
4. An area of research interest	( )	D. Experience and interest
5. The results are reproduced if the research repeated under similar conditions	( )	E. Cohort studies
6. Source of research problem	( )	F. Cross-sectional studies
7. Degree to which extraneous influences have been eliminated to identify relationships	( )	G. Alternate hypothesis
8. Extent to which findings of a study can be generalized to other settings	( )	H. Null hypothesis
9. Collect data at a single point in time	( )	I. Reliability
10. Collect data over a period of time prospectively	( )	J. Nursing characteristics
		K. External validity
		L. Replicability



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**Part C - Short Answer Questions (40 Marks)****Q1:**

Answer the following questions using the given hypothesis "Spirituality and religiosity are associated with psychological status in patients with chronic obstructive pulmonary disease".

1.1 State the independent and dependent variable of the above hypothesis. **(2 Marks)**

	Variable type	Variable
1.	Independent variable	
2.	Dependent variable	

1.2 Write **two (02)** possible extraneous variables that could influence the above mentioned hypothesis. **(2 Marks)**

a. ....

b. ....

1.3 Classify the above hypothesis stating whether it is,  
i) simple or complex ii) associative or causal iii) directional or non-directional iv) research or null (statistical) **(4 Marks)**

	Category	Type of hypothesis
a.	simple or complex	
b.	associative or causal	
c.	directional or non-directional	
d.	research or null (statistical)	

**(Total = 08 Marks)**

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**Q2:**

2.1 Write **two (02)** advantages of qualitative research. **(2 Marks)**

- a. ....  
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.....
- b. ....  
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2.2 Write **two (02)** disadvantages of qualitative research. **(2 Marks)**

- a. ....  
.....  
.....
- b. ....  
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2.3 List **three (03)** aspects of rigor that would be assessed in qualitative research. **(3 Marks)**

- a. ....
- b. ....
- c. ....

(Total = 07 Marks)

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**Q3:**

Nurses working in Covid-19 hospitals are exposed to various stressors and such stress and high workload lead to burnout. Imagine that you are working in a Covid -19 ward in the Base Hospital A. As an undergraduate nurse, you are interested in conducting a study to identify the level of burnout and its predictors in nurses treating for Covid-19 patients in your hospital. A list of staff nurses working in this hospital is available to you.

3.1 Write the research problem for the above study. **(1 Mark)**

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3.2 Write the purpose of the study. **(1 Mark)**

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3.3 State the **best** research approach and research design for the proposed study.

Research approach- ..... **(1 Mark)**

Research design- ..... **(1 Mark)**

3.4 State the **best** sampling technique to recruit the sample for the proposed study. **(1 Mark)**

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3.5 Justify the selected sampling technique for the above study. **(2 Marks)**

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3.6 You have developed a questionnaire to collect data for the proposed study.

3.6.1 State **two (02)** strengths of a questionnaire. **(2 Marks)**

a. ....  
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.....

b. ....  
.....  
.....

3.6.2 State **two (02)** weaknesses of a questionnaire. **(2 Marks)**

a. ....  
.....  
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b. ....  
.....  
.....

3.7 Briefly mention how you would determine content validity of the above questionnaire. **(2 Marks)**

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.....

3.8 State **two (02)** possible measurement errors that can occur due to administration of a questionnaire. **(2 Marks)**

a. ....

b. ....

(Total = 15 Marks)

**Q4:**

Read the following abstract and publication details and answer the questions given below.

**Title:** Association between self-care agency and depression and anxiety in patients with diabetic retinopathy

**Authors:** Bo Zhang, Qin Wang and Xuancan Zhang

**First published:** 10 April 2021

**Journal name:** BMC Ophthalmology

**Volume:** 21

**Issue:** 4

**Pages:** 603 - 618

**DOI:** <https://doi.org/10.1186/s12886-021-01883-w>

**Abstract**

Diabetic retinopathy (DR) is a common microvascular complication of diabetes mellitus (DM). Previous studies have shown that DM is associated with increased risk of depression, anxiety and complications of DM, such as DR. Due to the chronicity of DM, self-care is of key significance in its management. The competence of self-care is usually assessed by self-care agency. The purpose of this study was to assess the correlation between self-care agency and depression and anxiety in patients with DR.

A cross-sectional study was conducted. One-hundred and five patients with DR were recruited using convenience sampling method. Self-care agency was assessed by the exercise of self-care agency (ESCA) scale. Depression and anxiety were assessed by the hospital anxiety and depression scale (HADS-D and HADS-A). Cronbach's alpha coefficients of ESCA, HADS-D and HADS-A were 0.87, 0.79 and 0.68 respectively. Data were analysed by SPSS version 25 and Pearson or Spearman correlations were performed to assess the association between self-care agency and depression and anxiety.

Thirty-six (34.3%) and 43 (41.1%) patients exhibited depressive and anxiety symptoms, respectively. Only 24 (22.9%) patients showed a high self-care agency. The ESCA score was negatively correlated depressive symptoms ( $P < 0.05$ ) and anxiety symptoms ( $P < 0.05$ ).

Special attention should be paid to patients living in rural areas and/or those having a history of hypertension when assessing depression and anxiety in patients with DR. Future studies are needed to clarify the causal relationship between self-care agency and depression and anxiety.

4.1 What is the population being studied in this study?

(1 Mark)

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4.2 What is the sampling technique used in this study? **(1 Mark)**

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4.3 Write **two (02)** advantages of sampling technique used in this study. **(2 Marks)**

a. ....

.....

b. ....

.....

4.4 Write **one (01)** disadvantage of sampling technique used in this study. **(1 Mark)**

a. ....

.....

4.5 Which aspect of the scale was measured by Cronbach's alpha coefficients? **(1 Mark)**

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4.6 State how the researchers have analysed the data. **(1 Mark)**

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4.7 Which scale of measurement is used to assess self-care agency score? **(1 Mark)**

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4.8 Write the reference of this article according to APA style using the publication details provided. **(2 Marks)**

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(Total=10 Marks)



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**Part D - Short Essay Questions (20 Marks)****Q1:**

Nursing Profession is developing with the advancement of research worldwide. However, in Sri Lanka, development of nursing research progresses slowly due to various challenges. Briefly discuss the challenges that Sri Lankan nurses encounter when conducting nursing research.

**(10 Marks)****Q2:**

Briefly explain how you would adhere to ethical standards when designing a research involving people.

**(10 Marks)**

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