BOWEN UNIVERSITY COLLEGE OF HEALTH SCIENCES

BACHELOR OF PHYSIOTHERAPY PROGRAMME SECOND SEMESTER EXAMINATION – 2021/2022 SESSION

COURSE CODE/TITLE: PST 426– Research Methodology
DATE: Friday- 23rd September, 2022
TOTAL TIME: 2 HOURS

	Matriculation	Number:
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GENERAL INSTRUCTION: Answer all Questions in both Parts: I and II PART I:

SECTIONA: Answer all questions in the answer script

- 1. Write 10 simple sentences only on research validity. Each of the sentences should have an imaginary citation (any citation of your choice). The first five and the last five citations should be in APA and Harvard styles respectively. The first, second, third, fourth and fifth APA citations should have one, two, three, four and five authors respectively. The same is also applicable to the Harvard citations. (10 marks).
- 2. You are to collect data from all the levels (100 to 500 levels) of physiotherapy department. All the students in the department summed up to 500. Your sample size is 300. The number of students in 100, 200, 300, 400, and 500 levels are 80, 100, 70, 130, and 120 respectively. Using proportionate stratified sampling technique, how many students will you recruit from each level? (5 marks).
- 3. List five common errors made in literature review. (2 ½ marks)
- **4.** Mention 8 electronic databases you know (4 marks)
- 5. Define plagiarism (2 marks).
- **6.** Mention the types of plagiarism (1 mark)
- 7. Mention three excuses people give while indulging in plagiarism (3 marks).
- **8.** List three ways you can avoid plagiarism.
- **9.** List the sampling techniques you know (5 marks).
- 10. List two similarities and two differences between APA and Harvard referencing styles

SECTION B: Answer true or false. Wrong answers attract penalties.

- 1. Vancouver is an "author and date" referencing style.
- 2. You can cite your own words in a write up.
- 3. A plagiarist can be likened to a kidnapper.
- 4. History is a threat to internal validity.
- 5. Improvement in the internal validity connotes reduction in the external validity of a research.

PART II

Instruction: Part II consists of 3 Sections. Answer all sections in the Question Paper

SECTION A

Instruction: For Questions 1 to 14, choose the best option. Fill in the gap appropriately for Question 15.

- 1. Which of the following comes first in the research process? (a) picking an area of research interest (b) general plan for setting up a hypothesis (c) generating a proposed research question (d) creating a research design
- 2. All the following types of studies have no comparison group except (a) case report (b) case series (c) case control (d) none of the above
- 3. Which of the following studies consist of no intervention by the researcher? (a) case report (b) case series (c) case control (d) all of the above
- 4. The following are true of observational studies except (a) they have different groups of participants (b) there is no intervention by the researcher (c) they show a connection between an exposure and outcome (d) none of the above
- 5. A researcher noticed that a child attending the physiotherapy outpatient clinic cries only when a particular Physiotherapist is around in the paediatric unit, and decides to study the possible reasons for the occurrence. This study design is (a) case report (b) case series (c) cross-sectional (d) longitudinal
- 6. All the following are examples of observational studies except: (a) cross-sectional (b) case series (c) case-control (d) cohort
- 7. A study considers 50-65 year old Nigerian men of two groups: Group 1 are men with Cystic Fibrosis; Group 2 are men without Cystic Fibrosis. The study is investigating their past history, to know if exposure smoking and exhaust gas fumes were possible risk factors for Cystic Fibrosis. The design for this study is (a) cross sectional (b) longitudinal (c) case-control (d) cohort
- 8. A Physiotherapist embarks on research for all the following major reasons except: (a) to gain respect in the medical field (b) to establish efficacy of new protocols (c) to confirm the authenticity of previous findings (d) to add to the Physiotherapy knowledge base
- 9. A study done in 2022 investigating the clinical profiles of all individuals with *Injection Neuritis* in the outpatient Physiotherapy clinic of Bowen University Teaching Hospital that looks into pattern of affectation, documentation details, discharge criteria, between 2015 to 2021 is termed a study (a) prospective (b) retrospective (c) clinical trial (d) descriptive
- 10. The following are reasons Physiotherapy undergraduates carry out research except: (a) to develop critical thinking skills (b) to develop creativity (c) to be able to graduate with the degree (d) none of the above
- 11. All the following study types consists of two or more study groups except: (a) case series (b) cohort studies (c) randomised control trials (RCTs) (d) case-control studies
- 12. The ethical concept of treating a participant as an independent individual, capable of making decisions for themselves is called (a) justice (b) autonomy (c) non-maleficence (d) respect
- 13. Telling participants in a research involving the possibility of stimulation and irritation of the skin and body hairs by a contact medium used in therapeutic ultrasonography, beforehand, is termed (a) non-maleficence (b) beneficence (c) justice (d) autonomy
- 14. When an individual creates a result of a research, without proper data collection or field work, it is termed (a) plagiarism (b) falsification (c) fabrication (d) misleading other researchers

15.							ethics of Physi	• •
	•	graduate	research		n	Bowen	University,	is:
				SEC	ΓΙΟΝ B			
Instruc	tion: F	or Question	s 1-12, from tl	he optio	ns labelle	ed a to d, cl	noose the most cor	rect option
a) deve	loping	a research	search, which of design b) for research hypot	mulating			rst? n c) deciding the	data analysis
			e depth of any research aims	researc	h? a) the	research tit	ele b) the research	duration c) the
possesse	es a gi	aduate degr		/			mically inclined b) methodology d)	
			lection in mate vey d) question		d method	ls section o	f a research write-	up is called a)
			•	•	, -	_	ch title b) construc d introduction page	•
6. The v	vay or r	node of gath	ering data is ca	alled a) r	nethod b)	tool c) data	a collection d) plan	
7		is t	he raw materia	l for ana	lysis. a) v	variable b) p	oroblem c) data d) s	ample
8. The f	ïrst pag	e of a resear	ch report is the	a) abstr	act b) title	e page c) ta	ble of content d) co	ver page
9. A goo	od sub-l	hypothesis m	nust be a) appli	cable b)	meaning	ful c) testab	le d) measurable	
10. In a a) refere	researcences b)	h report, acknowledg	gement c) dedi	is used to	co show ir	ndebtedness tion	and appreciation.	
	nort sur olication	•	esearch report	is called	l a) a pro	posal b) an	abstract c) a resear	rch article d) a
stat	tement,	"indometha		described	d as		ia on joint pain"a) the depe	

SECTION C

Instruction: Fill in the gaps with the appropriate answers in all questions in this section.

1. Arrange the following in the ascending order of writing in a research report: Literature
Review, Abstract, Discussion, Results, Methodology:
2. In the Physiotherapy Programme, Bowen University, Nigeria, the colour(s) of the
undergraduate research reports are:
3. Where can you find hypotheses in a dissertation?
4. List four components of a title page in a dissertation or thesis:
(i)
(ii)
(iii)
(iv) (2 marks)
5. List four front materials of a dissertation report:
(i)
(ii)
(iii)
(iv)(2 marks)
6. The importance of adequate materials and methods employed undertaking a research work
cannot be overemphasized. List 6 components of this aspect of a research work:
(i)
(ii)
(iii)
(iv)
(v)
(vi)
7. Discuss each of the following research terms:
i. Informed Consent:

	•••••	••••••				
		(3 marks)				
ii.	Randomized Controlled Trial:					
		(3marks)				
8.	•	y 2022 is:				
0. In the tabular form, mention 2 differences between a recent manual and a recent						
9. In the tabular form, mention 3 differences between a research proposal and a research						
rep	ort.					
Resear	rch Proposal	Research Report				
(3 mar	·ks)					