

QUEST:

- ★ **Content Standard:**
 - ✓ The learner demonstrates understanding of instrument development.
- ★ **Learning Competencies:**
 - ✓ The learner constructs an instrument and establishes its validity and reliability (CS_RS12-Ila-c-3).



GUIDELINES IN CONSTRUCTING RESEARCH INSTRUMENT

RESEARCH INSTRUMENT

- An instrument is a measuring device.
- This may be used to gather data of the study.
- The instrument may be researcher-developed, it may be an adaptation of an existing instrument, or it may be an adopted instrument.

Two basic types of questions may be used in conducting surveys:

- Open-ended questions
 - are used when there are many possible responses to a particular problem. Respondents may answer freely and provide a detailed response to a query.
- Close-ended questions
 - are more difficult to construct but are easier to tabulate and analyze. They are also easier to be answered by their respective respondents. This type of questions is more appropriate in a quantitative research design.
 - have limited responses which are predetermined, such as gender which is limited to male or female, etc.

MISSION 1

Instruction: Write “O” if it is an open-ended question and “C” if it is an close-ended question.

- _____ 1. Have you ever had a full-time job?
- _____ 2. Would you prefer to be working or are you unemployed by choice?
- _____ 3. What feeling have you felt being discriminated in your own work place?
- _____ 4. Are you personally afraid of unemployment?
- _____ 5. What is your employment agreement in your main job?
- _____ 6. Do you feel you have all the education and skill in order to be competitive in your work field?

SURVEY QUESTIONNAIRE SAMPLE:

SURVEY QUESTIONNAIRE

COMMON LANGUAGE BARRIER IN SPEAKING ENGLISH AMONG THE SELECTED GRADE XII STUDENTS IN
ASIAN LEARNING CENTER-PAJO CAMPUS

NAME (OPTIONAL): _____STRAND: _____

GRADE & SECTION: _____

INSTRUCTION: Put a check mark (/) on the chosen scale as your answer.

| INHIBITION | A | O | SD | SO | N |
|--|---|---|----|----|---|
| 1. Have you been in a situation where you can't maintain eye-to-eye contact due to nervousness in speaking English? | | | | | |
| 2. Have you experienced not participating in class because you are afraid to speak especially when you are to state it in English? | | | | | |
| 3. Is there a time wherein you doubt to speak because you are afraid to be judge by others? | | | | | |
| 4. Have you been in a situation wherein because of hesitation in speaking you loss so much opportunity? | | | | | |

This is an example of researcher-made questionnaire. These questions are closed-ended questions which is more appropriate when it comes to quantitative research.

Researcher-made questionnaire must be aligned to statement of the problem and must be supported with theories. *(Questions that are not being supported with a theory must be considered not valid.)*

RESEARCHER-MADE QUESTIONNAIRE


- refers to the instrument to be used in a research prepared or crafted by the researcher himself or herself.
- it needs to undergo validation process in order to test its validity and reliability.

TYPES OF VALIDITY

1. Face Validity
2. Content Validity
3. Criterion Validity

STANDARDIZED QUESTIONNAIRE

- is one that is written and administered so all participants are asked the precisely the same questions in identical format and responses recorded in a uniform manner.




Beck Depression Inventory

CRTN: _____ CRF number: _____

Baseline

Page 14 patient initials: _____



Date: _____

Name: _____ Marital Status: _____ Age: _____ Sex: _____
Occupation: _____ Education: _____

Instructions: This questionnaire consists of 21 groups of statements. Please read each group of statements carefully, and then pick out the one statement in each group that best describes the way you have been feeling during the past two weeks, including today. Circle the number beside the statement you have picked. If several statements in the group seem to apply equally well, circle the highest number for that group. Be sure that you do not choose more than one statement for any group, including Item 16 (Changes in Sleeping Pattern) or Item 18 (Changes in Appetite).

| | |
|---|---|
| <div><div>1. Sadness</div><div><div>0 I do not feel sad.</div><div>1 I feel sad much of the time.</div><div>2 I am sad all the time.</div><div>3 I am so sad or unhappy that I can't stand it.</div></div></div> <div><div>2. Pessimism</div><div><div>0 I am not discouraged about my future.</div><div>1 I feel more discouraged about my future than I used to be.</div><div>2 I do not expect things to work out for me.</div><div>3 I feel my future is hopeless and will only get worse.</div></div></div> <div><div>3. Past Failure</div><div><div>0 I do not feel like a failure.</div><div>1 I have failed more than I should have.</div><div>2 As I look back, I see a lot of failures.</div><div>3 I feel I am a total failure as a person.</div></div></div> <div><div>4. Loss of Pleasure</div><div><div>0 I get as much pleasure as I ever did from the things I enjoy.</div><div>1 I don't enjoy things as much as I used to.</div><div>2 I get very little pleasure from the things I used to enjoy.</div><div>3 I can't get any pleasure from the things I used to enjoy.</div></div></div> <div><div>5. Guilty Feelings</div><div><div>0 I don't feel particularly guilty.</div><div>1 I feel guilty over many things I have done or should have done.</div><div>2 I feel quite guilty most of the time.</div><div>3 I feel guilty all of the time.</div></div></div> | <div><div>6. Punishment Feelings</div><div><div>0 I don't feel I am being punished.</div><div>1 I feel I may be punished.</div><div>2 I expect to be punished.</div><div>3 I feel I am being punished.</div></div></div> <div><div>7. Self-Dislike</div><div><div>0 I feel the same about myself as ever.</div><div>1 I have lost confidence in myself.</div><div>2 I am disappointed in myself.</div><div>3 I dislike myself.</div></div></div> <div><div>8. Self-Criticalness</div><div><div>0 I don't criticize or blame myself more than usual.</div><div>1 I am more critical of myself than I used to be.</div><div>2 I criticize myself for all of my faults.</div><div>3 I blame myself for everything bad that happens.</div></div></div> <div><div>9. Suicidal Thoughts or Wishes</div><div><div>0 I don't have any thoughts of killing myself.</div><div>1 I have thoughts of killing myself, but I would not carry them out.</div><div>2 I would like to kill myself.</div><div>3 I would kill myself if I had the chance.</div></div></div> <div><div>10. Crying</div><div><div>0 I don't cry anymore than I used to.</div><div>1 I cry more than I used to.</div><div>2 I cry over every little thing.</div><div>3 I feel like crying, but I can't.</div></div></div> |
|---|---|



Beck Depression Inventory

Baseline

V 0477

CRTN: _____

CRF number: _____

Page 15

patient initials: _____

11. Agitation

- 0 I am no more restless or wound up than usual.
- 1 I feel more restless or wound up than usual.
- 2 I am so restless or agitated that it's hard to stay still.
- 3 I am so restless or agitated that I have to keep moving or doing something.

12. Loss of Interest

- 0 I have not lost interest in other people or activities.
- 1 I am less interested in other people or things than before.
- 2 I have lost most of my interest in other people or things.
- 3 It's hard to get interested in anything.

13. Indecisiveness

- 0 I make decisions about as well as ever.
- 1 I find it more difficult to make decisions than usual.
- 2 I have much greater difficulty in making decisions than I used to.
- 3 I have trouble making any decisions.

14. Worthlessness

- 0 I do not feel I am worthless.
- 1 I don't consider myself as worthwhile and useful as I used to.
- 2 I feel more worthless as compared to other people.
- 3 I feel utterly worthless.

15. Loss of Energy

- 0 I have as much energy as ever.
- 1 I have less energy than I used to have.
- 2 I don't have enough energy to do very much.
- 3 I don't have enough energy to do anything.

16. Changes in Sleeping Pattern

- 0 I have not experienced any change in my sleeping pattern.
- 1a I sleep somewhat more than usual.
- 1b I sleep somewhat less than usual.
- 2a I sleep a lot more than usual.
- 2b I sleep a lot less than usual.
- 3a I sleep most of the day.
- 3b I wake up 1-2 hours early and can't get back to sleep.

17. Irritability

- 0 I am no more irritable than usual.
- 1 I am more irritable than usual.
- 2 I am much more irritable than usual.
- 3 I am irritable all the time.

18. Changes in Appetite

- 0 I have not experienced any change in my appetite.
- 1a My appetite is somewhat less than usual.
- 1b My appetite is somewhat greater than usual.
- 2a My appetite is much less than before.
- 2b My appetite is much greater than usual.
- 3a I have no appetite at all.
- 3b I crave food all the time.

19. Concentration Difficulty

- 0 I can concentrate as well as ever.
- 1 I can't concentrate as well as usual.
- 2 It's hard to keep my mind on anything for very long.
- 3 I find I can't concentrate on anything.

20. Tiredness or Fatigue

- 0 I am no more tired or fatigued than usual.
- 1 I get more tired or fatigued more easily than usual.
- 2 I am too tired or fatigued to do a lot of the things I used to do.
- 3 I am too tired or fatigued to do most of the things I used to do.

21. Loss of Interest in Sex

- 0 I have not noticed any recent change in my interest in sex.
- 1 I am less interested in sex than I used to be.
- 2 I am much less interested in sex now.
- 3 I have lost interest in sex completely.

Subtotal Page 2

Subtotal Page 1

Total Score

NR15645

3456789101112 ABCDE

- This is an example of standardized tool. This tool is not made by the researcher.
- The researcher must ask permission to use the tool for their research.
- Standardized tool can be found in the internet or other resources. This is more advisable than the theory based one.
- Standardized tool is considered as more reliable and valid.

MISSION 2

PERFORMANCE TASK “IDENTIFYING YOUR RESEARCH INSTRUMENT”

Instructions:

1. For standardized, search for possible research instrument that is related to your study.
2. For research-made questionnaire, construct at least 15 questions that can be used in your study.

NOTE: The questions must be anchored to your theories and SOP.

3. Submit your manuscripts to your research teacher.

References:

- *An introduction to Quantitative Research - Practical Research 2, Torneo, A & Torneo H, 2017*
- <https://discover.hubpages.com/education/Validation-of-researcher-made-questionnaire#:~:text=Researcher%2Dmade%20questionnaire%20refers%20to,the%20researcher%20himself%20or%20herself>



CHECKPOINT:

Name: _____

Section: _____

Quarter: 2

Week: 10

PRACTICAL RESEARCH 2

I. **Modified True or False.** Write “T” if the statement is correct, if not, underline the word that makes it wrong and write the correct answer before each item.

- _____ 1. A researcher made tool is considered as more reliable and valid.
- _____ 2. Close-ended questions are more appropriate in quantitative studies.
- _____ 3. In an open-ended question the respondents cannot answer freely and provide a detailed response to a query.
- _____ 4. Standardized tool can be found in the internet or other resources. This is more advisable than the theory based one.
- _____ 5. A researcher made tool must undergo a validation process in order to test its validity and reliability.

II. **Short response test.** Answer the following questions in each item. Write your answers in 5 sentences.

1. Give at least 5 Advantages and Disadvantages of using a researcher-made questionnaire.

| Advantages | Disadvantages |
|------------|---------------|
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |

2. What makes the “*Beck Depression Inventory*” a valid and reliable research instrument?