

COURSE CODE: EFM 301

COURSE TITLE: RESEARCH METHODS

INSTRUCTION: Use the objective Answer sheet provided to answer all the questions and ensure that all the questions are attached to the answer sheet provided when submitting

TIME ALLOWED: 1HR

1. Which of the following is not an important characteristic of research?
  - (a) Fantastic attachment to one approach
  - (b) Asking basic questions on issue ✓
  - (c) Tenacious search for order
  - (d) Systematic observation
  - (e) Arrive at testable results
2. Which of the following represent a clear statement of a research problem?
  - (a) Moral laxity in Nigerian schools
  - (b) Peer effect on students' attitude towards mathematics. ✓
  - (c) Helping students with their problems in school
  - (d) Mass failure in secondary school
  - (e) Mass failure in secondary education
3. Literature review in research serves all of the following purposes except
  - (a) Identifying important variable bearing on the problem
  - (b) Gaining perspectives of what others have done
  - (c) Identifying steps in carrying out data analysis
  - (d) Identifying strategies for carrying out the study.
  - (e) Facilitating the interpretation of research results
4. The statement "High school student who participate in peer counselling will have less absenteeism than high school students who receive individual counselling" is an example of
  - (a) Statement of specific research problem
  - (b) Null hypothesis
  - (c) Directional research hypothesis ✓
  - (d) Non-directional research hypothesis
  - (e) Conclusion of research study
5. Which of the following is not an important requirement in scientific operations?
  - (a) Abundant knowledge of facts
  - (b) Abundant information
  - (c) Tenacious search for order
  - (d) Systematic way of observation

$H_0: \mu = 50$   
 $H_1: \mu \neq 50$   
 $H_0: \mu \leq 50$   
 $H_1: \mu > 50$



- (e) Use of high sounding scientific jargons ✓
6. A psychological research has studied the effect of noise and academic performance. the dependent variable in this study?
- (a) The disturbance of the student around
- (b) The noise of the passers-by
- (c) Scores on the school subject(s) given ✓
- (d) The effectiveness of teaching method
- (e) Teachers knowledge of the subject matter
7. A research procedure is said to have validity when
- (a) The result it yields closely appropriates the environmental reality
- (b) Hypothesis tested can be rejected
- (c) Conclusions are based on factual evidence .
- (d) All variables known to affect the desired result can be identified
- (e) Hypothesis tested can be accepted.
8. An entire group of persons or elements that have at least one thing in common is referred to as a \_\_\_\_\_
- (a) Statistic
- (b) parameter
- (c) sample
- (d) population ✓
9. The statistics we use in research to help us test hypothesis are called \_\_\_\_\_
- (a) research statistics ✓
- (b) descriptive statistics
- (c) inferential statistics ✓
- (d) ordinary statistics
10. A characteristic of a population (such as the population mean) is referred to as a \_\_\_\_\_
- (a) statistic
- (b) parameter ✓
- (c) sample ✓
- (d) population
11. A characteristic of a sample (such as the sample deviation) is referred to as a \_\_\_\_\_
- (a) statistic ✓
- (b) parameter ✓
- (c) sample
- (d) population

$$\bar{x} = 4.57$$

$$\mu = 5.0$$