Dear student read each of the following questions carefully and circle the most correct answer for each of the following with attention that there is ONLY ONE correct answer for each question.

1. "The relationship between level of turnover and level of satisfaction among Jordanian staff nurse still not clear. The most relevant source for this research problem is:
   a. Practice
   b. Administration
   c. Education
   d. Social issues
   e. None of the above

2. Which of the following research designs is weakest in terms of the researcher's ability to establish causality:
   a. Quasi-experimental design
   b. Post test only control group experimental design
   c. Correctional design
   d. True experimental design
   e. Descriptive design

3. What is the major limitation of using homogeneity to control the intrinsic variables:
   a. Restrict the external validity
   b. Improve internal validity
   c. Use subjects who are very different
   d. All of the above

4. Which of the following is essential research aspect for Both the qualitative and quantitative research:
   a. Maintain ethical issues of the subject
   b. Hypothesis testing
   c. Use structural and fixed designs
   d. Measuring the dependent and independent variable
   e. All of the above

5. If a researcher secretly (without taking previous permission) studies interactions among elders staying in a nursing home. Which ethical principle can be maintained?
   a. Privacy
   b. Confidentiality
   c. Right to full disclosure
   d. Right to self-determination
   e. All of the above
6. What does anonymity guarantee?
   a. Study participants will be informed about the nature of the study
   b. Study participants have the right to withdraw from the study at anytime
   c. Information provided by study participants will not be given in a manner that identifies individual
   d. Information provided by the study participants will not be publicly available
   e. None of the above

7. Which of the following research role that all nurses at different academic level should be involved in:
   a. Research consumer
   b. Research evaluator
   c. Research producer
   d. None of the above

   e. One of the following is benefit of conducting literature review
      a. Identify relevant theory to guide the study
      b. Reflect the significant of the study
      c. Know what other have known about the phenomenon of interest
      d. Having idea about designs of other studies related to the same topic
      e. All of the above

8. Which of the following must be present in the quasi-experimental research
   a. A comparison group
   b. Matching of subjects
   c. Manipulation of a variable
   d. Randomization
   e. None of the above

9. “Glucose control is positively associated with level of knowledge among diabetic elderly population”. This statement could best described as:
   a. None directional hypothesis
   b. A statement of purpose
   c. Null hypothesis
   d. Directional hypothesis
   e. None of the above

10. Vulnerable subjects would include:
    a. Nurses who are working in nursing home institution
    b. People who do not speak English
    c. Nursing student attending their class
    d. Children aged less than 18 years old
    e. None of the above
11. “There is a relationship between student academic level and attitudes toward nursing research course”. This sentence could best described as:
   a. A statement of purpose  
   b. Directional hypothesis  
   c. None directional hypothesis  
   d. Null hypothesis  
   e. None of the above

12. Which of the following is a major limitation of the secondary analysis research:
   a. Missing data  
   b. Missing variables  
   c. Data clarity  
   d. All of the above

13. One of the following is NOT an essential feature of qualitative research:
   a. Control  
   b. Randomization  
   c. Generalizability  
   d. Measurement  
   e. All of the above

14. If a researcher is interested in exploring the relationship between depression level and number of smoking cigarettes among Al al-Bayt University students. This study can be classified as:
   a. True experimental study  
   b. Correlational study  
   c. Quasi-experimental study  
   d. Longitudinal study  
   e. Qualitative study

15. “This study aims to explore the relationship between level of experience and infection control practices among Jordanian staff nurses”. This sentence could best described as:
   a. None directional hypothesis  
   b. A statement of purpose  
   c. Research question  
   d. Directional hypothesis  
   e. None of the above

16. In a qualitative study entitled “life experiences of HIV positive Jordanians”. What is the independent variable in this study:
   a. Life experiences  
   b. HIV positives  
   c. A and B  
   d. None of the above
17. External environmental factors are typically controlled by:
   a. Randomly assigned subjects to treatment or control group
   b. Manipulating the independent variable
   c. Match the treatment group with a control group of the same subject characteristics
   d. Ensuring constancy of condition for all subjects
   e. C and D

18. Which ethical principle is exemplified in the following statement:
   “Participants in a qualitative study of the experiencing of living with AIDS discussing the purpose of the study and asking about the expected length of the study”:
   a. Anonymity
   b. Privacy
   c. Right to full disclosure
   d. Confidentiality
   e. A and B

19. Which of the following research aspect is essential part of correlational studies:
   a. Manipulates part of the subjects
   b. Random assignment of the subjects into stud groups
   c. Measure the independent variable and independent variable
   d. Random selection of the subject
   e. B and C

20. In a study entitled “the effect of educational program on glucose control of among diabetic Jordanians”. What is the independent variable in this study:
   a. Diabetic population
   b. Control of Glucose level
   c. Jordan
   d. Educational program
   e. None of the above

Examine the following table and answer the following 2 question (Q25, and Q26):

X: educational program Solomon Four-Group Design

<table>
<thead>
<tr>
<th>Test</th>
<th>pre-test</th>
<th>treatment</th>
<th>post-test</th>
<th>pre-score</th>
<th>post-score</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>R</td>
<td>O</td>
<td>X</td>
<td>O</td>
<td>3</td>
</tr>
<tr>
<td>b)</td>
<td>R</td>
<td>O</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>c)</td>
<td>R</td>
<td>X</td>
<td>O</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>d)</td>
<td>R</td>
<td></td>
<td></td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>
21. The estimated effect of the pre test reading on the post test score is:
   a. 9
   b. 5
   c. 4
   d. 3
   e. Non of the above

22. The design presented in the table is:
   a. Post test only control group design
   b. Solomon four-group design
   c. Pre test, post test quasi-experimental design
   d. Repeated measure design
   e. None of the above

23. Which of the following is NOT an essential feature of an experimental design:
   a. Control
   b. Random assignment
   c. Random selection
   d. Manipulation
   e. None of the above

24. “Many studies have explored the relationship between anxiety level and pain. Yet, the relationship between preoperative anxiety and postoperative pain still unclear. This sentence could best be described as:
   a. A research question
   b. A problem statement
   c. A statement of purpose
   d. A hypothesis
   e. None of the above
For questions 29 – 33, match each item with **ONLY ONE** item from the selection items (a – g). Selecting more than one item will be considered false answer. Please select the most appropriate matching:

25. ____ longitudinal studies
26. ____ Follow up studies
27. ____ Retrospective Study
28. ____ Methodologic Nursing studies
29. ____ Experimental studies

a. Study that begins with the manifestation of dependent variable in the present (e.g., lung cancer) and then links this effect to some presumed cause occurring in the past (e.g., cigarette smoking)
b. Study that concerns with the development, validation, and evaluation of research tools
c. Study that measures how well a program or policy is working
d. Study that begins with an examination of presumed causes (e.g., cigarette smoking) and then goes forward in time to observe presumed effect (e.g., lung cancer)
e. Study that tests the long term effect of certain intervention
f. Study that examine the change of the dependent variable over the time
g. Study that tests has two groups to test the effect of certain intervention
30. A researcher is studying nursing students' attitude and perceptions toward the nursing research. The researcher decided to take about 150 students as a sample for his study. Researcher asked students from different academic level to fill his research instrument. In the first time of data collection only 100 students came to participate in the study. After 3 months research again collected new sample of about 50 students. Researcher asked the student if you are already filled this instrument then please you are not eligible to participant of this study.

**Indicate the specific design for this study.**

a. ……………………………………………………………

31. A researcher is studying nursing students' attitude toward hepatitis B virus. The researcher decided to take a sample of the first year students. In next year the researcher asked the same group of students to fill his research instrument. In the third year the researcher asked the same group to fill his research instrument. In the forth year the researcher asked the same group to fill his research instrument.

**Based on this case study what is the most significant threat to the internal validity in this study?**

a. ……………………………………………………………