



CENTRAL UNIVERSITY

SCHOOL OF ENGINEERING AND TECHNOLOGY

END-OF-SECOND SEMESTER EXAMINATION 2020/21:
SEPTEMBER 2021

DEPARTMENT OF COMPUTER SCIENCE &
INFORMATION TECHNOLOGY

COMP 312: RESEARCH METHODS

(3 Credits)

LEVEL 300 (MIOTSO)

LECTURER(S): DR. K. K.MIREKU

INSTRUCTIONS

Answer ALL questions from this section on the system
It includes Multiple Choice Questions, True or False Statements and or Short Answering
Questions

Start Date/Time: Wednesday, September 1, 2021 / 9:00am

Multiple Choice Questions

Answer All Questions in this section. Each question carries 2marks

1. Research is
 - A. Searching again and again
 - B. Finding solution to any problem
 - C. Working in a scientific way to search for truth of any problem
 - D. None of the above
2. Which of the following is the first step in starting the research process?
 - A. Searching sources of information to locate problem.
 - B. Survey of related literature
 - C. Identification of problem
 - D. Searching for solutions to the problem
3. Action research means
 - A. A longitudinal research
 - B. An applied research
 - C. A research initiated to solve an immediate problem
 - D. A research with socioeconomic objective
4. Which of the following variables cannot be expressed in quantitative terms?
 - A. Socio-economic Status
 - B. Marital Status
 - C. Numerical Aptitude
 - D. Professional Attitude
5. In the process of conducting research 'Formulation of Hypothesis' is followed by
 - A. Statement of Objectives
 - B. Analysis of Data
 - C. Selection of Research Tools
 - D. Collection of Data
6. A research paper is a brief report of research work based on
 - A. Primary Data only
 - B. Secondary Data only
 - C. Both Primary and Secondary Data
 - D. None of the above
7. Questionnaire is a :
 - A. Research method
 - B. Measurement technique
 - C. Tool for data collection
 - D. Data analysis technique

8. Which of the following is not a "Graphic representation" ?
- A. Pie Chart
 - B. Bar Chart
 - C. Table
 - D. Histogram
9. The essence of both basic and applied research lies in
- A. market orientation
 - B. scientific method
 - C. performance monitoring research
 - D. costing methods
10. The research that is conducted to address a specific scientific decision is called
- A. applied scientific research
 - B. basic scientific research
 - C. evaluation research
 - D. performance monitoring research
11. The research that is conducted without having specific decision in mind is called
- A. applied research
 - B. basic research
 - C. evaluation research
 - D. performance monitoring research
12. One of the following search engine is exclusively meant for scientific information:
- A. Google
 - B. Yahoo
 - C. SCIRUS
 - D. Altavista
13. Bibliography given in a research report
- A. Helps those interested in further research and studying the problem from another angle
 - B. Shows the vast knowledge of the researcher
 - C. Makes the report authentic
 - D. None of the above
14. Which comes first, theory or research?
- A. Theory, because otherwise you are working in the dark
 - B. Research, because that's the only way you can develop a theory
 - C. It depends on your point of view
 - D. The question is meaningless, because you can't have one without the other

15. We review the relevant literature to know:
- A. What is already known about the topic
 - B. What concepts and theories have been applied to the topic
 - C. Who are the key contributors to the topic
 - D. All of the above
16. Which of the following is not a data-collection method?
- A. Research questions
 - B. Unstructured interviewing
 - C. Postal survey questionnaires
 - D. Participant observation
17. Which of the following is NOT true concerning Research in Computer Science...
- A. Research is purposeful investigation
 - B. It provides a structure for decision making.
 - C. Research is synonymous with common sense.
 - D. Both research and common sense depend on information
18. All the following are tools applied effectively for studies EXCEPT:
- A. demand forecasting
 - B. consumer buying behaviour
 - C. measuring advertising effectiveness
 - D. media selection and test marketing
 - E. product selling, and old product rebranding
19. An example of scientific knowledge is
- A. Laboratory and field experiments
 - B. Social traditions and customs
 - C. Authority of the Prophet or great men
 - D. Religious scriptures
20. What research involves the process of systematic collection, compilation, analysis, and interpretation of relevant data for marketing decisions?
- A. Marketing research
 - B. Managerial research
 - C. Digital research
 - D. Scientific research
 - E. Product research
21. Which of the following role of research is NOT important area in government
- A. Research lays the foundation for all government policies in our economic system.
 - B. Research is used for economic planning and optimum utilisation of resources for the development of the nation.
 - C. It is also needed for systematic collection of information on the foreigners and social management of them.
 - D. it indicates what is happening to the economy and what changes are taking place.

22. Which of the following is NOT true concerning Basic Research:
- A. Basic research is an investigation on basic principles and reasons for occurrence of a particular event or process or phenomenon.
 - B. Basic research is inquiry aimed at increasing scientific knowledge
 - C. Basic research is aimed at generating fundamental knowledge and theoretical understanding about basic human and other natural processes.
 - D. The basic researcher's motivation often comes from an appeasable curiosity and a desire to gain knowledge for popularity sake.
23. Which of the following is NOT true concerning Applied Research:
- A. is effort aimed at using basic research for solving problems or developing new processes, products, or techniques.
 - B. Topics for applied research are often driven by past problems of all spheres of life.
 - C. focused on answering real world practical question to provide relatively immediate solutions.
 - D. Applied research is more realistic than basic research.
24. In selecting a research topic, all the following can be considered EXCEPT:
- A. Scan your textbook and Browse Encyclopaedias.
 - B. Peruse Newspapers and other News Sources.
 - C. Look at the Researchers' database for current "Bible Topics".
 - D. Check the resources listed on the Current Topics guide.
 - E. Discuss topics with your instructor, a librarian or a classmate
25. The process not needed in experimental researches is
- A. Reference collection
 - B. Controlling
 - C. Observation
 - D. Manipulation and replication
26. Sources of Background Information needed for a research topic can be found in all the following EXCEPT:
- A. Textbooks and dictionaries
 - B. student database
 - C. general encyclopedias
 - D. subject-specific encyclopedias
 - E. article databases
27. Formulation of hypothesis may not be necessary in
- A. Survey studies
 - B. Fact finding (historical) studies
 - C. Experimental studies
 - D. Normative studies

28. Survey study aims at (i) knowing facts about the existing situation (ii) comparing the present status with the standard norms (iii) criticising the existing situation (iv) identifying the means of improving the existing situation
- A. (i) and (ii) only
 - B. (i),(ii),(iii)and(iv)
 - C. (ii) and (iii) only
 - D. (i),(ii)and(iii)
29. Which of the following is not the characteristic of a researcher?
- A. He is industrious and persistent on the trial of discovery
 - B. He is a specialist rather than a generalist
 - C. He is objective
 - D. He is not versatile in his interest and even in his native abilities
30. What is NOT classify as Research (I) Authority (II) Tradition (III) Common sense (IV) Media myths (V) Personal experience
- A. I, II and III
 - B. I, III, and IV
 - C. II, III, and V
 - D. I, III, and V
 - E. All the listed

True / False Questions

Answer All Questions in this section. Each question carries 2marks

31. Two secondary characteristics of research specify are “relevance”, and “topic”.
32. Research can also be define as the investigating using scientific procedures, by search again and again to find out the untruth processes.
33. The most important aspect of computer science is problem solving, an essential skill for life.
34. Students study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific and social contexts.
35. The Computer Science department uses research to advance knowledge in marketing product details.

36. Applied research studies individual or specific cases without the objective to generalize and aims at any variable which makes the desired difference.
37. Quantitative methods are research techniques that are used to gather quantitative data, data that cannot be sorted, classified, and measured.
38. The keywords you use can have a profound impact on the results of your research.
39. When a researcher captures the main ideas of the source succinctly by restating them in his/her own word can be known as Summarize.
40. A literature review is an account of what has been already established or published on a particular research topic by accredited scholars & researchers.

Short Answering Questions

Answer All Questions in this section. Each question carries 2marks

41. *A proposition laid down as a theme to be discussed and proved, A discussion to maintain and prove a thesis especially written or delivered by a candidate for university degree is known as:*

Answer:

42. *The human resource development uses research to study wage rates, incentive schemes, cost of living employee turnover rates, employment trends and*

Answer:

43. *Basic and applied research, further divided into three types of research bearing some characteristics feature as Quantitative Research Method also called*

Answer:

44. *Basic and applied research, further divided into three types of research bearing some characteristics feature as Qualitative Research Method also called*

Answer:

45. *Basic and applied research, further divided into three types of research bearing some characteristics feature as Mixed Method Research also called*

Answer:

46. What is can be define as follows in research ... "That which is produced on all levels of government, academics, business and industry in print and electronic formats, but which is not controlled by commercial publishers."

Answer:

47. In literature reviewing, when a researcher restate an author's ideas in the researcher's own words, it is known as

Answer:

48. The type of study that will try to identify the relationship between two or more things is refer asresearch

Answer:

49. If the research tries to display a relation between two or more things and they usually might be groups can be refer asresearch.

Answer:

50. Research techniques that are used to gather data that can be sorted, classified, and measured is referred to asmethod

Answer: