

(6 pages)

Reg. No. :

Code No. : 6450

Sub. Code : ZCSM 34

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Third Semester

Computer Science – Core

RESEARCH METHODOLOGY

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. A research which follows case study method is called
 - (a) Clinical or diagnostic
 - (b) Causal
 - (c) Analytical
 - (d) Qualitative

2. Research conducted in class room atmosphere is called
 - (a) Field study
 - (b) Survey
 - (c) Laboratory research
 - (d) Empirical research
3. "Reasoning from general to particular" is called
 - (a) Induction
 - (b) Deduction
 - (c) Observation
 - (d) Experience
4. "Deduction and induction are a part of system of reasoning" - stated by
 - (a) Caroline
 - (b) P.V Young
 - (c) Dewey John
 - (d) Emory
5. Variance of a random variable X is given by
 - (a) $E(X)$
 - (b) $E(X^2)$
 - (c) $E(X^2) - (E(X))^2$
 - (d) $(E(X))^2$
6. If the null hypothesis is false then which of the following is accepted?
 - (a) Null hypothesis
 - (b) Positive hypothesis
 - (c) Negative hypothesis
 - (d) Alternative hypothesis

Page 2

Code No. : 6450



7. What is plagiarism?
- Using words or ideas of another author/researcher without citing the source
 - Paraphrasing original content and not citing it
 - Using your own previous works without proper acknowledgment
 - All of the above
8. Copyright is _____
- Positive right
 - Negative right
 - Exclusive right
 - Both (a) and (b)
9. In which of these people with similar interests contribute with their knowledge?
- Seminar
 - Conference
 - Symposium
 - Convention
10. Which of the following is not an effective way for presentation?
- not relying on technology
 - use visuals wisely
 - consider audience
 - presentation without plan

Page 3 Code No. : 6450

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) List and explain the objectives of research methodology.

Or

- (b) How to do you go about formulating research problem? Discuss.

12. (a) Analyze the relationship between the explanation and prediction.

Or

- (b) Write the limitations of primary data collection.

13. (a) Differentiate between probability and non probability sampling.

Or

- (b) Construct the structure of scientific reports.

14. (a) Explain the different criteria's of patentability.

Or

- (b) How to select a good trademark? Discuss.

Page 4 Code No. : 6450

[P.T.O.]



15. (a) Tell about objectives of teaching.

Or

- (b) Enumerate the advantages and disadvantages of discussion method of teaching.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Categorize the various types of research.

Or

- (b) Discuss the importance of critical literature review and its uses in planning innovation research.

17. (a) Develop the research plan for computer science research.

Or

- (b) Explain the various sources of obtaining data for the selected research problem.

18. (a) What are the steps involved in writing good research report? Analyze.

Or

- (b) Describe the guidelines for preparing a good research report oral presentation.

Page 5 Code No. : 6450

19. (a) Why copy rights are preferred rather than patents in case of software? Justify your answer.

Or

- (b) As a student what are the precaution to be taken to publish a plagiarism free report. Discuss.

20. (a) Elucidate the effectiveness of ICT corner.

Or

- (b) Demonstrate the principles of adolescent development.
-

Page 6 Code No. : 6450

