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Reg. No......

Name.....

INTEGRATED M.C.A. (I.M.C.A.) DEGREE EXAMINATION, MARCH 2025

Sixth Semester

IMCA 601—RESEARCH METHODOLOGY

(2019, 2018 and 2017 Admissions—Supplementary)

Time : Three Hours

Maximum Marks : 75

Part A

*Answer any **ten** questions.*

Each question carries 3 marks.

1. Write a note on problem definition.
2. What are the advantages of research problem ?
3. Show the steps for research process.
4. Define : “Geometric Mean”.
5. What are the difference between quartile deviation and standard deviation ?
6. Point out the methods used for measures of variation.
7. How will you measurement of errors ? Explain.
8. What is T-test ?
9. What are the limitations of Impact factor ?
10. List out the advantages of h-index.
11. Infer the uses of Industrial design.
12. Define : “Copyrights”.

(10 × 3 = 30)

Turn over





F 8098

Part B

Answer all questions.

Each question carries 9 marks.

13. (a) Illustrate the formulation of a research problem.

Or

- (b) Explain the methods of data analysis used for research work.

14. (a) Find the quartile deviation of the following data :

Class	:	4-8	8-12	12-16	16-20
Frequency	:	6	10	18	30

Or

- (b) Calculate the mean and standard deviation for the following distribution :

X	:	6	7	8	9	10	11	12
f	:	3	6	9	13	8	5	4

15. (a) Determine the ethics of research.

Or

- (b) Analysis the purpose of chi-square test with simple example.

16. (a) Evaluate the guidelines for writing the abstract.

Or

- (b) Summarize the importance of results and discussion of a manuscript.

17. (a) Demonstrate the basic latex commands and documentation.

Or

- (b) Enumerate the different forms of IPR.

(5 × 9 = 45)

