No. of Printed Pages : 4

MANAGEMENT PROGRAMME (MP)

Term-End Examination

June, 2025

MMPC-015 : RESEARCH METHODOLOGY FOR MANAGEMENT DECISIONS

Time: 3 Hours Maximum Marks: 100

Weightage: 70%

- Note: (i) This question paper contains two Sections: Section A and Section B.
 - (ii) Attempt any **four** questions from Section A. Each question carries 20 marks.
 - (iii) Section B is compulsory and carries 20 marks.

Section—A

- 1. What is research methodology? Give a brief account of mathematical tools for the analysis in research methodology.
- 2. "A research scholar has to work as a judge and derive the truth and not as a pleader who is only eager to prove his case in favour of his plaintiff." Discuss the statement, pointing out the objectives of the research.
- 3. Explain random sampling and outline the different methods of random sampling.
- 4. "A questionnaire is the most popular method of data collection." Do you agree ? Justify your answer and explain the guidelines for using this method.
- 5. What kind of questions will arise while reviewing the draft report before submission? Elaborate.

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- 6. Write shot notes on any *three* of the following:
 - (a) Pilot study
 - (b) Non-random sampling
 - (c) Questionnaire method
 - (d) Secondary data
 - (e) Research design

Section—B

7. The data given below is on a large industrial plant's daily emission of Sulphur oxides (in tons):

17	15	20	29	19	18	22	25	27	9
24	20	17	6	24	14	15	23	24	26
19	23	28	19	16	22	24	17	20	13
19	10	23	18	31	13	20	17	24	14

Use the one-sample sign test to test the null hypothesis that the plant's true average

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daily emission of sulphur oxide is $\mu=23.5$ tons against the alternative hypothesis $\mu<23.5$ tons at the 0.05 level of significance. Tabulated value of test statistic at 0.05 is 1.96.

