



Registration No:

--	--	--	--	--	--	--	--	--	--

Total Number of Pages: (01)

Course: MPT

SUBJECT NAME: Research methodology and
Biostatistics

SUB_CODE: 23MPT102

Q. CODE: A080

(1st Year MPT) Examination: 2023-24 (Admitted Batch)

Max Time: 1 & 1/2 Hours

Max Marks: 40

Sitting: 1st, 10.00 AM to 12.30 PM

Any Question having parts should be answered as whole at one place only.

Illustrate answer with diagrams wherever relevant / required if any)

The figures in the right-hand margin indicate marks.

Q 1 Long Answer questions any two out of four

(2 x 15 Marks)

- A Elaborate on the ICME guidelines and their role in ethical research practices.
- B Discuss the differences between parametric and non-parametric tests with suitable examples.
- C Write an essay on plagiarism in scientific publications and the tools available to detect it.
- D Discuss the concept of validity and reliability in the measurement of research outcomes.

Q 2 Short Answer questions any five out of eight

(5 x 2 Marks)

- a) What is the meaning of epidemiological measures?
- b) What is a randomized control design?
- c) Discuss 2 citation styles used in scientific writing.
- d) State two purposes of power analysis in biostatistics.
- e) Mention the importance of conflict of interest declarations in research.
- f) Write down two examples of clinical practice guidelines.
- g) Differentiate between descriptive and inferential statistics.
- h) Define the term CTRL.
