

JBQ-014-1053001

Seat No. _____

M. Pharm. (Sem. III) Examination

January - 2020

MRM - 301 T: Research Methodology and Biostatistics

Faculty Code: 014

Subject Code: 1053001

Time: 3 Hours] [Total Marks: 75

1 Write in brief about following:

 $10 \times 2 = 20$

- (1) What do you mean by double effect?
- (2) Write full form of: CPCSEA, IAEC
- (3) What are roles and responsibilities of member secretary in IAEC?
- (4) Write full form of: GCP, ICH
- (5) Enlist various members of Human Ethics Committee
- (6) Enlist members required to complete the quorum for IAEC
- (7) In clinical trial, how will you take informed consent if participant and his/her guardian are illiterate?
- (8) Define p-value with its significance.
- (9) What do you mean by Variance? Give its importance.
- (10) Mention various sources of literature review
- 2 Explain in detail about following questions: (Any Two) $2\times10=20$
 - (1) Write important points with regards to physical facilities and animal husbandry as per CPCSEA guidelines.
 - (2) Enumerate various parametric tests. Write a detailed note on null hypothesis and student's t test with one example.
 - (3) Informed consent process.

- 3 Describe at length about following questions: (Any Seven) 7×5=35
 - (1) Enumerate main points of Nuremberg code.
 - (2) Summarize: Tuskegee syphilis experiment.
 - (3) Explain following terms: Standard deviation, Population, Sample, Bias, Out liars.
 - (4) What is Euthanasia? Write a brief note on it.
 - (5) Write main points of Helsinki declaration.
 - (6) Enlist TEN records to be maintained by Animal Ethics Committee.
 - (7) Write importance of sample size in research and various factors influencing on it.
 - (8) What is regression and coefficient of correlation? Explain importance of same.
 - (9) Enlist various members of IAEC with their minimum qualifications.