

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2021

Subject Name: Research Methodology and Biostatistics

Subject Code: MRM301T

Branch: M.Pharm (Pharmaceutics, PQA)

Semester: 3

Date: 13/12/2021

Time: 02:30 To 05:30

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions: (20)

- | | | |
|----|---|---|
| a) | Write Criteria of Good Research. | 2 |
| b) | Define: P value | 2 |
| c) | Define: Degree of freedom | 2 |
| d) | Define: Euthanasia | 2 |
| e) | What is informed Consent? Explain in short. | 2 |
| f) | What is placebo? | 2 |
| g) | Explain term: Null hypothesis | 2 |
| h) | Define: students "t" test | 2 |
| i) | Explain in short: Conflicts of interest. | 2 |
| j) | What are the goals of CPCSEA? | 2 |

Attempt the following questions:

Q-2 Attempt any two of following : (20)

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|----------|--|-----------|
| A | Write a short note on Declaration of Helsinki. | 10 |
| B | Write a note on ANOVA. | 10 |
| C | What is Research Methodology? Explain the step in scientific research process. Briefly explain about Review of Literature. | 10 |

Q-3 Attempt any Seven of following : (35)

- | | | |
|----------|--|----------|
| A | Briefly explain the principle involved in conducting Animal experiments. | 5 |
| B | Features of Good Research Design. | 5 |
| C | Write a note on Fatality. | 5 |
| D | Write a note on Dropouts. | 5 |
| E | Advantages and disadvantages of Non-Parametric test. | 5 |
| F | What is meant by Research? Describe its objectives. | 5 |
| G | What is sample size? Explain importance of sample size. | 5 |
| H | What is the meaning of Referral, explain it. | 5 |
| I | Explain in detail Random Sampling Method. | 5 |

