M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year IV Semester
Core Major
CLINICAL TRIALS AND DATA MINING

Time : 3 Hours   **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Write short notes on master protocol.
2. Define diagnostic trails with suitable example.
3. What is single blind and double blind study.
4. Explain the use of GCP/ICH guidelines?
5. Prepare a general case report form design for patients.
6. What are continuous response variable?
7. What is dichotomous variable? Give suitable example.
8. What is clinical data mining?
9. Explain decision tree classifier.
10. What is average linkage?
11. Name different types of trials.
12. Write any two open source data mining software tools.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Give the importance of randomization.
14. Explain the main features of study protocol.
15. Describe interim analysis.
16. Explain the concept of study design.
17. Explain Genetic algorithm with an example.
18. Write any two methods of hierarchical cluster and its uses.
19. Write short notes on cross over design and its advantages.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Discuss the ethical principles in clinical trials.

21. Discuss double single trails with suitable example.

22. Write short notes on the following: (i) data collection system (ii) clinical practice (iii) minimum standards.

23. Explain the steps involved in the construction of Rule based classifiers.

24. Discuss partitioning methods of clustering methods with suitable example.

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