

Total No. of Questions - 22] Total No. of Printed Pages - 2]

DEC-23-0094

BP-801 T (Biostatistics & Research Methodology)

B.Pharm-8th (PCI)

Time : 3 Hours

Max. Marks : 75

Note: The question paper contains three sections in all, Section A, B and C. In Section A, all questions are compulsory. From Section B student has to attempt any two questions and from Section C student has to attempt any seven questions.

SECTION-A

(10x2=20)

Short Answer (Compulsory)

1. Define Harmonic Mean with example. (2)
2. Define Sampling Error. (2)
3. Write two advantages of Karl Pearson's method of Correlation. (2)
4. Define Sampling and Sample size. (2)
5. What is non-parametric test? (2)
6. Write two disadvantages of confounding. (2)
7. Define Blocking. (2)
8. Define Replication. (2)
9. Write advantages of factorial design. (2)
10. Define Response surface methodology. (2)

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SECTION-B

(2x10=20)

Long Answer (Any Two)

11. Define mixed sampling. Write merits and demerits of mixed sampling. (10)
12. Define hypothesis. What are the objectives and types of testing of hypothesis? (10)
13. Discuss the classical optimization techniques in detail. (10)

SECTION-C

(7x5=35)

Short Note Answer (Any Seven)

14. Explain the Spearman's rank method. (5)
15. Explain the sampling criteria and their procedure. (5)
16. Explain the need for design of experiment. (5)
17. Write mathematical operation with excel formulation. (5)
18. Write about the 22 design with two blocks. (5)
19. What are parts of a Histogram? (5)
20. A die is thrown 6 times. Consider "getting of odd number" is a success, then what is the probability of:
(a) 5 successes? (b) at least 5 successes?
(c) at most 5 successes? (5)
21. What are the characteristics of Factorial Design? (5)
22. Explain the Sequential nature of the Response Surface Methodology. (5)