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SASTRA » Numerical & Statistical Analysis



Unit 5 - Unit V : Non-parametric statistical methods & Time series analysis

Course outline

UNIT - I :
Transcendental
Polynomial &
Simultaneous
equations and
Interpolations ()

UNIT - II :
Numerical
differentiation and
Integration ()

UNIT - III :
Numerical
Solutions of ODE
()

UNIT - IV :
Statistical
distributions and
Test of hypothesis
()

Unit V : Non-
parametric
statistical
methods & Time
series analysis ()

☐ Lecture 1 : Advantages
and disadvantages of
Non parametric
methods (week 13)
(unit?
unit=74&lesson=75)

☐ Lecture 2 : Some non-
parametric methods
(week 13) (unit?
unit=74&lesson=76)

☐ **Quiz: Assessment – 13**
(assessment?
name=83)

☐ Lecture 3 : Sequential
Analysis, Sequential
Probability Ratio test
(week 14) (unit?
unit=74&lesson=77)

☐ Lecture 4 : Sequential
Probability Ratio test

Assessment -- 13

The due date for submitting this assignment has passed.

Due on 2023-06-18, 23:59 IST.

As per our records you have not submitted this assignment.

1) In a normal distribution

1 point

- ☐ Median=Mean=Mode
☐ Mean > Mode
☐ Mean<Mode
☐ Mean=Mode=1

No, the answer is incorrect.
Score: 0

Accepted Answers:
Median=Mean=Mode

2) The number of times a treatment is repeated in an experiment is called

1 point

- ☐ experiment
☐ repetition
☐ replication
☐ none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
replication

3) Which of the following is a non parametric test?

1 point

- ☐ t-test
☐ chi-square test
☐ kruskal wallis H test
☐ no idea

No, the answer is incorrect.
Score: 0

Accepted Answers:
kruskal wallis H test

4) The scale uses numbers to represent some kind of ordering or ranking is known as

1 point

- ☐ normal scale
☐ ordinal scale
☐ probability scale
☐ cannot say

No, the answer is incorrect.
Score: 0

Accepted Answers:
ordinal scale

5) A sample of population is called a large sample if the sample size n is

1 point

- ☐ less than 30
☐ more than 30
☐ equal to 30
☐ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
more than 30

6) The normal curve is

1 point

(cont.) (week 14) (unit?
unit=74&lesson=78)

○ Lecture 5 : Time series
analysis – Introduction
(week 14) (unit?
unit=74&lesson=79)

○ Lecture 6 : Time series
Analysis - trends(week
14) (unit?
unit=74&lesson=80)

○ Quiz: Assessment - 14
(assessment?
name=90)

○ Lecture 7 : Principal
Component Analysis
(week 15) (unit?
unit=74&lesson=81)

○ Lecture 8 : PCA (cont.)
(week 15) (unit?
unit=74&lesson=82)

○ Quiz: Assessment – 15
(assessment?
name=87)

- ☐ symmetric
- ☐ asymptotic
- ☐ Mean<Mode
- ☐ Mean -- Mode=1

No, the answer is incorrect.

Score: 0

Accepted Answers:
symmetric

7) The property of normal curve remains

1 point

- ☐ Bell shaped curve
- ☐ asymptotic
- ☐ Mean<Mode
- ☐ Mean=Mode=1

No, the answer is incorrect.

Score: 0

Accepted Answers:
Bell shaped curve

8) Conclude the statement: If X is a normal distribution with mean 5 and variance 1, then X-5 is a variate with mean 0 and variance 1.

1 point

- ☐ decision cannot be taken
- ☐ false
- ☐ true
- ☐ none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:
false

9) If X is a normal distribution with mean 6 and variance 1, then mean of the normal variate X-6 is

1 point

- ☐ 1
- ☐ 2
- ☐ 0
- ☐ -1

No, the answer is incorrect.

Score: 0

Accepted Answers:
0

10) The graph of the normal distribution is symmetric with respect to the line y=x

1 point

- ☐ true
- ☐ false
- ☐ depends on the probability density function
- ☐ cannot say

No, the answer is incorrect.

Score: 0

Accepted Answers:
false

11) The number of sample statistic required to apply U test is -----

1 point

- ☐ 2
- ☐ 1
- ☐ 5
- ☐ 3

No, the answer is incorrect.

Score: 0

Accepted Answers:
2

12) Non-parametric tests are used to compare -----

1 point

- ☐ datas
- ☐ distributions
- ☐ problems
- ☐ no idea

No, the answer is incorrect.

Score: 0

Accepted Answers:
distributions

13) Which of the following is a non parametric test?

1 point

- ☐ U-test

- ☐ Kruskal – Walli's test
- ☐ Both first and second choice
- ☐ none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

Both first and second choice

14) The table value of H in Kruskal-Walli's test is obtained by using

1 point

- ☐ t-distribution table
- ☐ F-distribution table
- ☐ Chi-distribution table
- ☐ none of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:

Chi-distribution table

15) When the number of samples is two, the kruskal's walli's test becomes

1 point

- ☐ U-test
- ☐ no test
- ☐ test
- ☐ problem

No, the answer is incorrect.
Score: 0

Accepted Answers:

U-test



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