

Reg. No.:

Name:

FIRST YEAR HIGHER SECONDARY EXAMINATION SAMPLE QUESTION PAPER

Part III
STATISTICS
Maximum : 60 Scores

Time: 2 Hours
Cool-off time: 15 Minutes

General Instructions to Candidates.

- There is a ‘Cool off time’ of 15 minutes in addition to the writing time.
- Use the ‘Cool of time’ to get familiar with questions and to plan your answers
- Read questions carefully before answering.
- Read the instructions carefully.
- Calculations, figures and graphs should be shown in the answer sheet itself.
- Malayalam version of the questions is also provided.
- Give equations wherever necessary.
- Electronic devices except non programmable calculators are not allowed in the examination hall.

വിദ്യാർത്ഥികൾക്കുള്ള പൊതു നിർദ്ദേശങ്ങൾ

- നിർദ്ദിഷ്ട സമയത്തിന് പുറമെ 15 മിനിട്ട് ‘കൂൾ ഓഫ് ടൈം’ ഉണ്ടായിരിക്കും
- ‘കൂൾ ഓഫ് ടൈം’ ചോദ്യങ്ങൾ പരിചയപ്പെടാനും ഉത്തരങ്ങൾ ആസൂത്രണം ചെയ്യാനും ഉപയോഗിക്കുക
- ഉത്തരങ്ങൾ എഴുതുന്നതിനു മുമ്പ് ചോദ്യങ്ങൾ ശ്രദ്ധാപൂർവ്വം വായിക്കണം
- നിർദ്ദേശങ്ങൾ മുഴുവനും ശ്രദ്ധാപൂർവ്വം വായിക്കണം
- കണക്കു കൂട്ടലുകൾ, ചിത്രങ്ങൾ , ഗ്രാഫുകൾ എന്നിവ ഉത്തരക്കടലാസിൽ തന്നെ ഉണ്ടായിരിക്കണം
- ചോദ്യങ്ങൾ മലയാളത്തിലും നൽകിയിട്ടുണ്ട്
- ആവശ്യമുള്ള സ്ഥലത്തു സമവാക്യങ്ങൾ കൊടുക്കണം
- പ്രോഗ്രാമുകൾ ചെയ്യാനാകാത്ത കാൽക്കലേറ്റുകൾ ഒഴികെയുള്ള ഒരു ഇലക്ട്രോണിക് ഉപകരണവും പരീക്ഷ ഹാളിൽ ഉപയോഗിക്കുവാൻ പാടുള്ളതല്ല

Answer any five questions from 1 to 6 each question carries 2 scores

1. Find quartiles for the given data.
9, 16, 9, 14, 20,18, 19,20, 3, 8,5,12
2. Distinguish between Primary and Secondary data
3. Which are the types of classification?
4. Draw a pie diagram to represent the following data

City	A	B	C	D
Angle	65	85	100	110

5. Explain the following terms

1) Sample space 2) Mutually exclusive events

6. A person goes from his house to office at a speed of 20 km/hr and returns from office to home at a speed of 35 km/hr . Find the average speed of his journey?

Answer any six questions from 7 to 13 each question carries 3 scores

7. find covariance of given data

X	55	60	50	65	60	50
Y	16	15	11	15	13	12

8. Prepare a blank table with following information

Stream : Science, Commerce, Humanities

Sex : Male, Female

Second Language : Hindi, Malayalam, Arabic

9. a) The industrial statistics wing of CSO is located in

i) New Delhi ii) Kolkata iii) Chennai iv) Mumbai

b) Write short note on ISI

10. Prepare a questionnaire about use of drugs among higher secondary students in Kerala

11. The mean wage of 150 workers of the first shift in a factory is Rs. 400/- the mean wage of 75 Workers in the second shift is Rs. 600/-. Find the mean wage of all the workers in the factory ?

12. a) For a set of 50 observations the AM is calculated as 65. Later on it was discovered that one of the observation 18 was wrongly taken as 80. Calculate the correct mean of the data?

b) For a frequency distribution mean = 32, Median = 31. Find Mode ?

13. Prepare a frequency table for the observations given below. Take class interval as 5.

5 14 7 11 9 3 5 3 2 20 24 27 29 21
18 14 15 12 4 6 19 22 8 10 12 7 4 26
25 24

Answer any five questions from 14 to 19 each question carries 4 scores

14. a) Draw a histogram to the following data

Class	0-10	10-20	20-30	30-40	40-50	50-60
Frequency	8	12	15	11	7	3

b) The graph used to represent a bivariate data is

a) multiple bar diagram b) frequency polygon c) box plot d) scatter plot

15. Find the median of the following data?

Daily wage	0-4	4-8	8-12	12-16	16-20
No. of persons	14	25	30	7	4

16. i) ----- is a Non probability sampling

a) Quota sampling b) Multi stage sampling c) Stratified sampling
d) Simple random sampling

ii) Explain Systematic sampling.

17. a) Two coins were tossed once. Write down the sample space obtained and find the probability of getting two heads ?

b) For a random experiment $P(A) = 0.25$, $P(B) = 0.5$ and $P(A \text{ and } B) = 0.2$.

Find $P(A \text{ or } B)$?

18. A class consists of 45 students of which 22 are girls. 10 girls and 6 boys in the class got 90% marks in the first year examination. A student is selected at random is found to have scored 90% mark. What is the probability that the selected student was a boy?

19. Find mode from the following data

Class	30-35	35-40	40-45	45-50	50-55	55-60	60-65
Frequency	3	5	12	18	14	6	2

Answer any two questions from 20 to 22 each question carries 6 scores

20. The price of share of X and Y are given below. State which share is more stable in value.

X	55	54	52	53	56	58
Y	108	107	105	105	106	107

21. a) Explain different types of kurtosis.

b) In the distribution of wages of workers in a factory the difference of third and first quartile is 25, their sum is 55 and median is 20. Find the Bowley's coefficient?

22. draw ogives for the following data and hence find median

marks	0-20	10-20	20-30	30-40	40-50
No of students	8	12	20	10	4

TEAM LEADER
MEMBERS

1 SREEJA TN
2 SOORAJ KUMAR V
3 MANSOOR VP
4 PRADEEP KUMAR B
5 ANJU K
6 PUSHPALATHA KC
7 SAJNA P
8 PRIYA VA
9 SOUMYA MOL KK
10 ASWATHY TP

448069 HSST STATISTICS
494091 HSST STATISTICS
152245 HSST STATISTICS
453776 HSST STATISTICS
846851 HSST STATISTICS
522710 HSST STATISTICS
843467 HSST STATISTICS
748754 HSST STATISTICS
836489 HSST STATISTICS
GUEST LECTU HSST STATISTICS

GHSS PULAMANTHOL
EMEAHSS KONDOTTY
GHSS THADATHILPARAMB
GHSS VAZHAKKAD
MMMHSS KOOTTAYI
GHSS KUNNAKKAVU
MSMHSS KALLINGALPARA
GRHSS KOTTAKKAL
GHSS MARANCHARI
GHSS ALIPARAMBA