(6 Pages) Reg. No.:	2. A group of participants selected for treatment from a larger population is	nt	
Code No.: 10642 E Sub. Code: CMPE 63	(a) Population (b) Sample		
	(c) Inference (d) Range		
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024.	3. Find out the mean for the following data:		
Sixth Semester	15, 17, 16, 14, 19, 18, 12, 13		
	(a) 12 (b) 12.5		
Physical Education – Core	(c) 15.5 (d) 16		
ELEMENTARY STATISTICS IN PHYSICAL EDUCATION	4. The scores that occurred most in the distribution		
	(a) Mean (b) Median		
(For those who joined in July 2021–2022)	(c) Mode (d) Intensity		
Time: Three hours Maximum: 75 marks	5 is the square root of the average of the		
PART A — $(10 \times 1 = 10 \text{ marks})$	squared deviations from the mean		
A	(a) Variance (b) Range		
Answer ALL questions.	(c) Standard deviation(d) Sum of squares		
Choose the correct answer.	6. The is the difference between the lowes		
1. Numbers bases on samples are referred as	and highest values	L	
(a) Statistics	(a) Mean		
(b) Parameters	(b) Median		
(c) Central Tendency	(c) Range		
(d) Variability	(d) Standard deviation		

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- 7. To collect the height and weight of the students in class is
 - (a) Nominal scale
 - (b) Ordinal scale
 - (c) Interval scale
 - (d) Ratio scale
- 8. What term is used to describe an extreme score in a group of scores?
 - (a) Discrepant
 - (b) Extremist
 - (c) Outlier
 - (d) Non-conforming
- 9. From the large group which a sample is taken is called
 - (a) Population
- b) Sample
- (c) Inference
- (d) Range
- 10. A positively-skewed distribution is more likely to occur whenever we have
 - (a) A large sample size
 - (b) Floor effects
 - (c) Ceiling effects
 - (d) A wide variety at participants

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PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain the quantitative data with example.

Or

- (b) Explain the qualitative data with example
- 12. (a) List down the advantages of measures of central tendency.

Or

- (b) Find out mean, median and mode for the following data. 35, 42, 63, 60, 46, 71, 63, 65, 59, 67, 66.
- 13. (a) Calculate the standard deviation for following data24, 21, 19, 18, 17, 16, 18, 19, 14.

Or

- (b) Explain the range and its advantages.
- 14. (a) List down the measures of relative position.

Or

(b) Explain about the standard scales.

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15. (a) Explain the principles of normal curve.

Or

(b) Write about the population and sample.

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the need and importance of statistics in physical education.

Or

- (b) Classify the types of statistics.
- 17. (a) Find out the median from the following data

SI 80-84 75-79 70-74 65-69 60-64 55-59

F 2 2 2 7 9 15

SI 50-54 45-49 40-44 35-39 30-34

F 6 5 4 2 2

Or

(b) Explain the term mean, median and mode with suitable example.

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18. (a) Describe about the quartile deviation.

Or

(b) Find out the standard deviation for the following data

Step Interval 70-74 65-69 60-64 55-59

Frequency 2 4 7 9

Step Interval 50-54 45-49 40-44 35-39

Frequency 10 12 13 11

Step Interval 30-34 25-29 20-24

Frequency 7 5 3

19. (a) Explain the merits and demerits of quartile deviation.

Or

- (b) Explain about the T scale and Hull scale.
- 20. (a) Explain the positive and negative skewness.

Or

(b) Explain the concept and measures and Kurtosis.

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