Roll No. | | | | | | | | | | | | | **Total No. of Pages: 02**

Total No. of Questions: 07

M.Sc. (Fashion Marketing Management)(Sem. – 1)

STATISTICS FOR FASHION INDUSTRY

Subject Code: MSFMM-106-18 (Non-Core)

M Code: 75289

Date of Examination : 16-01-23

Time: 3 Hrs. **Max. Marks: 30**

INSTRUCTIONS TO CANDIDATES:

1. **SECTION-A is COMPULSORY and Students have to attempt TEN questions carrying ONE mark each.**
2. **SECTIONS-B consists of THREE Sub-sections : Units-I, II, & III. Each Sub-section contains TWO questions each, carrying FIVE marks each.**
3. **Students have to attempt FOUR questions in all from SECTION-B, selecting at least ONE question from each Sub-section.**

SECTION A

1. Answer the following as True or False:

a) A descriptive measure computed from a sample is called a statistic.

b) A sample is a portion of population drawn through a valid statistical procedure.

c) Frequency distributions are a subset of inferential statistics.

d) Mean scores are helpful in the interpretation of nominal data.

e) It is possible to convert a frequency distribution to a grouped frequency distribution without referring back to the original data.

f) Skewed distributions usually show the familiar bell shape.

g) The null hypothesis states that there are no individual differences within the groups.

h) If we are using a t-test and we reject the null hypothesis, we can be sure that the population means are different.

i) If a positively skewed distribution has a median of 50 then its mean is greater than 50 and mode is less than 50.

j) Standard deviation is robust to outliers.

SECTION-B

UNIT-I

2. The given table is listed about the number of boys and girls of different schools that have participated in a scholarship test over five years.

School	A		B		C		D	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
2001	300	80	280	60	320	84	450	70
2002	320	70	300	80	424	100	320	60
2003	340	90	420	120	230	70	360	90
2004	370	100	480	140	360	120	500	120

Find:

a) In year 2004 the number of participating girls is what percent of number of participating boys?

b) Find the total number of participants in year 2003?

3. Explain various sampling techniques in detail.

UNIT II

4. Calculate Sample Skewness, Sample Kurtosis from the following grouped data:

X	0	1	2	3	4
Frequency	1	5	10	6	3

5. The table below shows the number of absences, x, in a Calculus course and the final exam grade, y, for 7 students. Find the correlation coefficient and interpret your result. Also find regression equation:

$$\hat{y} = mx + b$$

x	1	0	2	6	4	3	3
y	85	80	70	55	90	90	95

UNIT-III

6. Explain hypothesis testing in detail with the help of suitable examples.

7. What is probability? Explain sampling distribution in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.