



Class XII
Time Allowed: 15 minutes

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION 2023
SUBJECT: BUSINESS STATISTICS

Q1: SECTION "A"

Marks 10

Note: Attempt all question from this section. Each question carries one mark

1. Data collected from personal interview is an example of:
a) Primary data b) Secondary data c) Discrete data d) Continuous data
2. The colours of eyes of the students in a class represents:
a) Qualitative data b) Quantitative data c) Discrete data d) Continuous data
3. The wage of worker in a factory represents:
a) Quantitative data b) Qualitative data c) Discrete data d) Continuous data.
4. One of the categories of the statistical method is
a) Managerial statistics b) Decision science c) Inferential statistics d) Industry statistics
5. The difference between maximum value and minimum value of data is termed as:
a) Range b) Mid value c) Class boundaries d) Cumulative frequency
6. The frequent repeated value of data is termed as:
a) Mean b) Median c) Mode d) H.M
7. In which one of the following distribution Mean > Median > Mode:
a) Symmetrical b) Positively skewed c) Negatively skewed d) Equal distribution
8. Index numbers are expressed in:
a) Percentages b) Kilograms c) Pounds d) Liters
9. Which one of the following index number is based on quantity of base year?
a) Paasche's index number b) Fisher's Index number c) Laspeyre's index number d) Marshall Index Number.
10. The probability of selecting a bad egg is 0.035 from the lot of 400 eggs. So, what is the number of bad eggs in the lot?
a) 14 b) 16 c) 18 d) 20

Class XII
Time 1 hour 45 minutes

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION 2023
SUBJECT: BUSINESS STATISTICS SECTION "B" AND SECTION "C"
SECTION "B" SHORT ANSWER QUESTIONS

Total Marks 40
Marks 20

Q2. Answer any five questions. All Questions carry equal marks:

- i. Describe the Types of statistics. Sources of Primary data and Secondary data.
- ii. The following data give the record of wages (in Rs.) of 30 workers in a factory:
127 129 131 122 124 112 114 137 114 126
129 124 126 134 128 121 129 135 118 132
127 119 133 131 125 134 117 116 131 134.
Prepare a fequency distribution, taking class- intervals as 110 – 114, 115 – 119, 120 – 124, etc.
- iii. Draw a Pie Chart on your answer script from the following data:

Items	Food	Clothing	Rent	Medical	Other
Expenditure in (Rs.)	96	32	50	23	40
- iv. For the given data: 23, 18, 28, 15, 23, 19. Verify that the sum of the deviations from mean is zero. i.e., $\sum(x - \bar{x}) = 0$.
- v. Find price relative taking 2005 as base year for the given data:

Year	2010	2011	2012	2013	2014	2015
Price	200	220	240	230	250	270
- vi. A six – sided die is tossed only once. What is the probability of getting?
 - i) an even number.
 - (ii) a 4 or a higher number.
 - (iii) a 7.
- vii. If a card is drawn at random from an ordinary pack of 52 playing cards. Find the probability that the card; a) Diamond card.
(b) Face card.



SECTION "C" DETAILED ANSWER QUESTIONS

Marks 20

Note: Attempt any two questions from the following. All questions carry equal marks

Q3. The following data represents the retail prices of a sample of different brands of a commodity:

50 50 50 28 65 40 50 22 32 30.
79 50 22 20 35 24 25 38 35 35.
65 20 14 25 24 48 15 10 17 60.
25 22 60 30 12 30 10 12 20 68.

Prepare a frequency distribution with equal classes of size 10.

Also find:

- i) Percentage frequency.
- ii) Relative frequency.
- iii) Cumulative frequency less than and more than.
- iv) Find Class Boundries.
- v) Find Mid-point.

Q4. Calculate Laspeyre's, Paasche's and Fisher's Ideal price index numbers for 2011 using 2010 as base year:

Commodity Price Quantity

Commodity	Price		Quantity	
	2010	2011	2010	2011
A	10	12	15	16
B	15	20	20	22
C	25	30	10	15

Q5. A pair of fair dice is rolled once. What is the probability of getting;

- (i) The same number.
- (ii) First die is 3.
- (iii) Second die is 5.
- (iv) The sum of the two faces is greater than 10.

END OF PAPER