

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)
LOGISTICS AND SUPPLY CHAIN MANAGEMENT/
AVIATION MANAGEMENT
EXAMINATION : JUNE - 2024
SEMESTER - II

Sub.: Business Statistics (BBA23-AVLS 216)

Date : 10/06/2024

Total Marks : 60

Time: 10.00 am to 12.30 pm

Instructions: 1) All questions are compulsory.
 2) Figures to the right indicate full marks.

Q. 1. Choose the most appropriate option. (05)

1. Mode of data : 20 , 25, 20 , 20, 29 , 32
 a) 32
 b) 20
 c) 29
 d) 25
2. Mean of data : 20 , 24,28,32,36,40,44
 a) 32
 b) 40
 c) 36
 d) 44
3. Range of Value 20,22,24,26,28,30,32
 a) 14
 b) 21
 c) 16
 d) 12
4. Mode of data : 20 , 25, 27 , 28,30,32,34,36
 a) 30
 b) 23
 c) 29
 d) 31
5. What will be standard deviation if variance = 576
 a) 28
 b) 32
 c) 25
 d) 24

Q. 2. State True / False (05)

1. In normal distribution , mean=mode=median
 a) True
 b) False
2. In binomial distribution, $p + q = 1$
 a) True
 b) False
3. Newspaper is a source of primary data for reporters
 a) True
 b) False
4. Secondary data is most reliable source of data
 a) True
 b) False
5. Z test is nonparametric method
 a) True
 b) False

Q. 3. Write Short notes on (Any Three) (15)

1. Write a note on Binomial distribution
2. Write a note on Moving Average
3. Write a note on probability
4. Write a note on Exponential distribution
5. Write a note on Survey

Q. 4. Answer in detail (Any Two) (20)

1. Explain Correlation in Statistics
2. Explain different types of data in Statistics
3. Explain Regression Analysis
4. Explain Normal distribution

Q. 5. Case study (15)

- 1) Find Correlation between Supply of Products and Demand of Products.
Data is given below:

Supply (in thousands)	20	25	30	45	30
Demand (in thousands)	40	45	50	55	60

- 2) Find Spearman Rank Correlation co-efficient for the following data:
Following data is rank obtained by students in English and Maths subject:

Rank (English)	9	3	10	4	6	5	8	1	2	7
Rank (maths)	4	2	10	7	5	9	8	1	3	6

- 3) Fit a linear regression model for following data:

Sr.No.	Aircraft landing Frequency (X)	Main Tire consumption (Y)
1	2	14
2	4	16
3	7	18
4	9	20
5	10	22