



38123

Reg. No.

--	--	--	--	--	--	--	--

I Semester B.B.A. Degree Examination, April - 2022

AVIATION MANAGEMENT

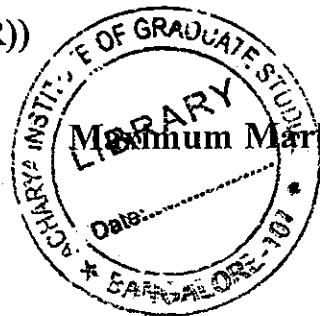
Quantitative Techniques for Management - I

(CBCS Scheme 2019-2020 (R))

Time : 3 Hours

Instructions to Candidates:

Answers should be completely in English.



Maximum Marks : 70

SECTION - A

Answer any **five** sub-questions. Each sub-question carries **two** marks.

(5×2=10)

1. a. What are natural numbers?
- b. Find H.C.F of 20 and 50.
- c. What do you mean by 'Matrix'?
- d. Mention any 2 Limitations of statistics.
- e. What is symmetrical distribution?
- f. Define Index numbers.
- g. Solve for 'x' : $x^2 = 5x - 14$.

SECTION - B

Answer any **Three** of the following.

(3×6=18)

2. Find AB if $A = \begin{bmatrix} 7 & 4 & 2 \\ 3 & 2 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 6 & 2 \\ 3 & 4 \\ 1 & 3 \end{bmatrix}$.

3. Solve for 'y' if $\begin{vmatrix} 3 & 6 & 12 \\ y & 9 & 21 \\ 9 & 12 & 31 \end{vmatrix} = 0$.

[P.T.O.]



(2)

38123

4. Compute the price index number for the following data by using simple average of price relative method by arithmetic mean.

Items :	Bricks	Timber	Board	Sand	Cement
2006	10	20	5	2	7
2012	16	21	6	3	14
2013	18	22	7	5	21

5. Find absolute & relative measures of Quartile deviation.

Marks :	20	30	40	50	60	70	80	90
No. of students :	3	8	16	26	27	50	56	60

SECTION - C

Answer any **Three** from the following.

(3×14=42)

6. From the prices of shares of X & Y given below :

State which share prices are more stable.

X: 55 54 53 53 56 68 52 50 51 49

Y: 108 107 105 105 106 107 104 103 104 101

7. Calculate Karl Pearson's co-efficient of skewness from the following.

Wages (E) : 270-280 280-290 290-300 300-310 310-320 320-330 330-340 340-350

No. of persons : 12 18 35 42 50 45 20 08

8. Draw a histogram for the following data and locate 'Mode'

Class Interval : 325-350 350-375 375-400 400-425 425-450

Frequency : 30 45 75 60 35

9. Find the inverse of the matrix $A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$
-