QUESTION BANK 2019



SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS) :: PUTTUR

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OUESTION BANK (DESCRIPTIVE)

Subject with Code: BUSINESS STATISTICS FOR MANAGERS (19MB9004)

Course & Branch: MBA I Year I -Sem

Regulation: R19

<u>UNIT –I</u>

1. Explain functions and scope of the statistics.	10M
2. Define statistics. Explain the significance of statistics	10M
3. Explain origin and development of statistics	10M
4. Explain the applications of statistics.	10M
5. Define statistics. Explain the various branches related to statistics.	10M
6. How computers can be useful for statistical analysis? Explain with example	10M
7. Explain the nature and characteristics of statistics.	10M
8. Define statistics. Explain objectives and scope of statistics.	10M
9. Explain the relation of statistics with other disciplines.	10M
10. What are the limitations of statistics?	10M

UNIT –II

1. Write about the Introduction of Measures of Central Tendency.	10M
2. Explain the terms Arithmetic – Median, Mode – Geometric mean and	1014
Harmonic mean. 3. Explain Measures of Dispersion? Write about range, quartile deviation,	10M
Mean deviation, Standard deviation.	10M
4. What is coefficient of variation? How to calculate coefficient of variation in different Methods.	10M
5. What are the application of measures of central tendency and dispersion for Business Decision making	10 M
6. Calculate Mean, Median and Mode from the following data	10 M

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	10	18	27	32	24	09

7. Calculate Mean Deviation from the following data and interpret the result 10M

Marks in Statistics(X)	20	35	15	40	10	35	30	25	45	30
Marks in Accounts(Y)	25	30	20	35	20	25	25	35	35	30

8. Calculate Standard Deviation from the following data?

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No.of students	10	18	27	32	24	09

9. Find the Quartile Deviation for the data given below?

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70
F	7	8	12	15	6	4	3

10. Explain about Bowleys co-efficient of skewness and Pearsons co-efficient of skewness with examples.

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UNIT-III

- a) Primary data b) Secondary data.
- 2. Give a brief explanation about classification and tabulation of data
- 3. How Data can be classified and tabulated?
- 4. What are the methods and tools that are available for data classification and tabulation? 10M
- 5. The following are the figures of sales of two firms A&B for the years 2003 to 2010. 10M present the data graphically?

Year	Sales Firm A	Sales Firm B
	('ooo units)	('ooo units)
2003	200	2000
2004	300	3000
2005	400	4000
2006	500	5000
2007	600	6000
2008	700	7000
2009	800	8000
2010	900	9000

- **6.** Elaborate methods of data collection?
- 7. Draw less than and more than O gives from the data given below?

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10M

Profits(rs lakhs)	No. of companies
10-20	6
20-30	8
30-40	12
40-50	18
50-60	25
60-70	16
70-80	8
80-90	5
90-100	2

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8.	How can you represent data by one dimensional, two dimensional and three dimensional	ional	
	diagrams?	10M	
9.	Explain different types of Graphs in data representation with an example?		10M
10	• What are the rules of constructing a questionnaire?		10M

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UNIT-IV

1. Calculate correlation coefficient from the following data and interpret the result?

10M

Marks in Statistics(X)	20	35	15	40	10	35	30	25	45	30
Marks in Accounts(Y)	25	30	20	35	20	25	25	35	35	30

2. The following data relate to the prices and supplies of a commodity during a period of nine years. What is Correlation coefficient? 10M

Price(RS)	40	45	65	75	77	87	69	94	43
Supply(KG)	30	35	25	25	19	27	38	49	12

3. Obtain the regression equations for the following?

Х	8	10	9	7	8	9	6
Y	2	3	4	2	5	4	6

- 4. What is the Meaning of regression analysis? Explain its utilities. 10M
- 5. Define correlation? Explain different types of correlation?
- 6. Explain the difference between correlation and regression?
- 7. How do you interpret the regression coefficients?
- 8. Find the regression lines for the following data

Income (in '000 Rs)	10	20	25	30	38	40	42	50	56	60
Expenditure (in '000 Rs)	9	18	20	25	32	38	40	48	50	53

9. Calculate Spearman's rank correlation coefficient between marks assigned to 10 students by judges X and Y in a certain competitive test as shown below?

Marks	52	53	42	60	45	41	37	38	25	27
by X										
Marks	65	68	43	38	77	48	35	30	25	50
by Y										

10 Calculate Spearman's rank correlation coefficient for the following data?

Rank by	2	3	5	4	7	6	8	1
А								
Rank by	1	8	3	5	4	7	6	2
В								

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UNIT-V

- 1. Define Hypothesis? Explain the process of hypothesis testing?
- 2. A sample of 400 individuals is found to have a mean height of 67.47 inches. Is it reasonable to regard the sample drawn from the large population with mean height 67.39 inches and standard 10M

deviation of 1.3 inches. Test at 1% level of significance

3. Carry out ANOVA two-way classification to the following data.

		Bloc	ks	
Treatment 1	13	7	9	3
Treatment 2	6	6	3	1
Treatment 3	11	5	15	5

4. In a large manufacturing factory, a survey was conducted regarding three types of bonus schemes. Total employees were divided into four categories namely laborers, clerks, technicians and executives. The results obtained by way of opinion survey are presented in the form of contingency table as given below. Test the goodness of fit at 5% level of significance. 10M

Employees	BON	JS SCHEMES			
Category	Type 1	Type 2	Type 3		
Labour	190	243	197		
Clerks	82	44	44		
Technicians	23	78	34		
Executives	5	12	8		

5. Two random samples were drawn from two normal populations and their values are

Α	66	67	75	76	82	84	88	90	92		
В	64	66	74	78	82	85	87	92	93	95	97

Test whether two populations have the same variance at 5% level of significance?

- 6. A random sample of size16 has 53 as mean. The standard deviation of the sample is 3. Can this ample be regarded as taken from the population having 56 as mean?
- 7. The life time of electric bulbs for a random sample of 10 from a large consignment gave the following data:

Item	1	2	3	4	5	6	7	8	9	10
Life in	4.2	4.6	3.9	4.1	5.2	3.8	3.9	4.3	4.4	5.6
'000 hours										

Can we accept the hypothesis that the average life time of bulbs is 4000 hours?

- 8. Distinguish between parametric tests and non parametric tests?
- 9. Explain the procedure involved in solving ANOVA problem.
- 10. In an anti-malarial campaign, quinine was administered to 812 persons out of a total population of 3248. The number of fever cases is shown below.

Treatment	Fever	No fever	total
Quinine	20	792	812
No quinine	220	2216	2436
total	240	3008	3248

Discuss the usefulness of Quinine in checking malaria.

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