



BHARATI VIDYAPEETH

(Deemed to be University), Pune (India)

School of Distance Education

Yashwantrao Mohite College of Arts, Science and Commerce, Pune-38

DEPARTMENT OF MATHEMATICS & STATISTICS

Semester – I (2018-19)

Subject:- Business Mathematics and Business Statistics-I

Assignment No:- 1 & 2.

Name of the Student :

Class :- F.Y.B.Com.

Roll No.:

Mobile No.:

E-mail ID:

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Assignment No:- 1

Q.1. Attempt all of the following

- a) Write note on importance of statistical methods
- b) What is scope of statistics in the field of medical sciences and economics
- c) Write note on simple random sampling
- d) Write note on stratified random sampling
- e) Following data indicate spelling mistakes committed by 25 students when words were dictated
0,1,1,3,5,0,0,1,1,3,2,3,1,1,0,0,1,1,0,1,2,3,1,0,5.
Prepare frequency distribution of the above data.

Q.2. Attempt all of the following.

- a)
 - i) Find LCM of 11, 121 and 1331
 - ii) Find HCF of 630, 945, 1449.
 - iii) Find 30% of 480.
 - iv) Find HCF and LCM of 105 and 135
 - v) Express $\frac{3}{4}$ as percentage.
- b) Find x if
 - i) 6: 15: : 2 : x
 - ii) 15: 27: : x: 45
 - iii) x: 15: : 1: 3
 - iv) 5: x : : 7: 28
- c)
 - i) If 30 articles cost Rs. 316/-, find the cost of 78 articles.
 - ii) Find mean proportional to 49 and 64.
 - iii) If 30 men can do a job in 80 days how many more men would be required to do it in 50 days ?
- d) X,Y and Z started a business by investing Rs. 25,000/-, Rs. 20,000/- and Rs. 35,000/- respectively. At the end of the year there was a profit of Rs. 19,200/-. Find the share of each of them in a profit.
- e) Define ratio and proportion .

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Subject:- Business Mathematics and Business Statistics-I
Assignment No:- 2

Q.1. Attempt all of the followings.

- a) Draw histogram for the following frequency distribution.

Class	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	14	13	15	28	16	10

- b) Draw the ogive curve for the following frequency distribution .

Weight in kg.	30-40	40-50	50-60	60-70	70-80
No. of Students	3	5	12	20	10

- c) Define Class limits, Mid point of the class and Width of a class

- d) The table below shows a frequency distribution of the I.Q. of 90 school children.

I.Q.	50-59	60-69	70-79	80-89	90-99	100-109
Number of Children	3	10	18	25	24	10

With reference to this table determines.

- i) mid point of second class.
- ii) width of any class.
- iii) state the type of classification.
- iv) frequency of 3rd class
- v) frequency density of 5th class.
- vi) relative frequency of 2nd class.
- vii) class boundaries of 3rd class.
- viii) how many children getting IQ less than 79.5 .

Q.2. Attempt all of the followings.

- a) A sold a car to B at 15% profit, B sold the car to C at 5% profit for Rs. 89,985/-. Find the price at which A had purchased the car.
- b) The population of a city according to 1971 census was 94,500 and it rose to 1,21,200 in 1981. Find the percentage increase in the population.
- c) Monthly salaries of Ramesh and Rahul are in the ratio 4:5. The company offer them an increment of Rs. 1500/- each. The ratio of new salaries 11:13. Find the salary of each one.
- d) i) A scooter purchased for Rs. 12,000/- was sold for Rs. 13,800/- . Find the percentage profit.
ii) By selling two motor cars for Rs. 1,45,000/- each trader gain 10% on one and on the other he loss 10%. What was the total gain or loss in the total transaction?