



RAN-0248

S.Y.B.Com (Honours) Sem III Examination

March / April - 2019

Business Statistics : Paper-III

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

1)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S.Y.B.Com (Honours) Sem III

Name of the Subject :

Business Statistics : Paper-III

Subject Code No.: 0 2 4 8

Seat No.:

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Student's Signature

- All the questions are compulsory.
- Figures to the right indicate full marks of the questions.
- Simple calculator can be used.

- Q.1. a)** Explain meaning of statistics. Discuss various applications of statistics in different fields. **5**
- b) Give meaning and importance of graphical representation of data **3**
- c) What is primary data? **2**
- d) Explain briefly least square method of fitting trend to the time-series data. **3**

- Q.2. a)** Find Median for the following data. **4**

Height	95-105	105-115	115-125	125-135	135-145
No. of Students	19	23	36	70	52

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[1]

[P.T.O.]

- b) Calculate mean and standard deviation for the following data giving the age distribution of 542 members 6

Age in years	20-30	30-40	40-50	50-60	60-70	70-80	80-90
No. of Members	3	61	132	153	140	51	2

- c) Find first three raw moment about the point 5 for the series 3, 4, 6, 7, 10 3

- Q.3. a)** Give statistical definition of probability. Also give limitations of mathematical definition of probability 5

- b) There are 4 red and 5 blue balls in a bag. If two balls are selected at random one after the other without replacement, then find the probability that both the balls are blue. 4

- c) Probability that A and B solve a problem is $\frac{3}{4}$ and $\frac{1}{5}$ respectively. Find the probability that the problem is being solved, if both of them try simultaneously. 3

- Q.4. a)** What are different components of a time series? Describe each of them. 4

- b) Calculate three yearly moving average of the following data to find trend. 3

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Sale	112	104	108	121	116	111	133	125	129	139	131

- c) Fit a straight line trend to the following data by least square method and estimate sale for the year 2016 5

Years	2011	2012	2013	2014	2015
Sale	30	45	54	70	85