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Reg. No. : .....

Name : .....

**First Semester B.B.A. Degree Examination, January 2014  
Career Related First Degree Programme under CBCSS  
Group 2(b)**

**Common for Core Course BM 1141 2010 : Admission/Complementary  
Course BM 1131 2011 Admission  
BUSINESS STATISTICS**

Time : 3 Hours

Max. Weightage : 30

**SECTION – A**

This Section consists of **four bunches of four questions each**. Each bunch carries a weightage of 1. Answer all questions. **(4x1=4 Wt.)**

I. Choose the most appropriate answer from the following :

- 1) Measures of Central Tendency are popularly known as
  - a) Correlation
  - b) Regression
  - c) Standard deviation
  - d) Average
- 2) The reciprocal of the arithmetic mean of the reciprocals of the values of a distribution is called \_\_\_\_\_ mean of the distribution.
  - a) Arithmetic
  - b) Harmonic
  - c) Geometric
  - d) None of these
- 3) The distribution which has two modes is called \_\_\_\_\_.
  - a) Unimodal
  - b) Bimodal
  - c) Multimodal
  - d) None of these
- 4) Which one of the following relationships is correct ?
  - a) Mode = 3 Median – Mean
  - b) Mode = 4 Median – Mean
  - c) Mode = 5 Median – 2 Mean
  - d) Mode = 3 Median – 2 Mean

5) For a normal distribution

a) Q.D. > M.D.

b) Q.D. < M.D.

c) Q.D. = M.D.

d) None of these

6) In case of open end classes, an appropriate measure of dispersion to be used is

a) Range

b) Quartile Deviation

c) Mean Deviation

d) Standard deviation

e) None of the above

7) If the distribution is approximately normal, then

a)  $M.D. = \frac{2}{5}\sigma$

b)  $M.D. = \frac{3}{5}\sigma$

c)  $M.D. = \frac{4}{5}\sigma$

d) None of the above

8) When  $\beta_2$  is greater than 3, the curve is

a) Lepto kurtic

b) Meso kurtic

c) Platy kurtic

d) None of these

III. Fill in the blanks choosing the suitable words from those given in brackets :

9) The normal distribution is a \_\_\_\_\_ probability distribution.

10) The result of a random experiment is called \_\_\_\_\_

11) If in a series, coefficient of variation is 64 and mean 10, the standard deviation shall be \_\_\_\_\_

12) For a symmetrical distribution, mean, median and mode \_\_\_\_\_

IV. Match the following :

- |   |  |
|---|--|
| 13) Coefficient of mean deviation       | a) $\sigma^2$                                  |
| 14) A proforma filled by the enumerator | b) $\frac{\text{M.D about Mean}}{\text{Mean}}$ |
| 15) Interquartile range                 | c) Schedule                                    |
| 16) Variance                            | d) Variation                                   |
|   | e) $Q3 - Q1$                                   |

#### SECTION - B

Answer **any eight** questions. Answer in **one** or **two** sentences. **Each** question carries a weightage of 1. (8×1=8 Wt.)

- 17) What is statistical method ?
- 18) What is Mode ?
- 19) What is class limit (boundaries) ?
- 20) Define standard deviation.
- 21) What is a pie diagram ?
- 22) What is an Ogive Curve ?
- 23) What do you mean by primary data ?
- 24) What is meant by census method ?
- 25) Define Kurtosis.
- 26) What do you mean by positive skewness ?
- 27) What are events ?
- 28) What is binomial distribution ?

#### SECTION - C

Answer **any five** questions. Answer in **one** paragraph. **Each** question carries a weightage of 2. (5×2=10 Wt.)

- 29) What are the main functions of statistics ?
- 30) Differentiate a variable from an attribute.
- 31) What is dispersion ? What are the objects of measuring dispersion ?



32) What do you understand by Judgment Sampling ? What are its advantages ?

33) Enumerate the disadvantages of quartile deviation.

34) Construct a Pie diagram to represent the following data :

Item :	Bricks	Labour	Cement	Miscellaneous
Cost (%) :	25	30	25	20

35) Arithmetic mean of 100 items is 34. At the time of calculation three items 118, 70 and 19 were wrongly taken as 180, 17 and 90 respectively. What is the correct mean ?

36) Find the standard deviation of 1,2,3,4,5,6,7,8.

#### SECTION - D

Answer **any two** questions. Each question carries a weightage of 4. (2×4=8 Wt.)

37) Distinguish primary data from secondary data. Enumerate the different sources of secondary data.

38) Calculate coefficient of variation from the following :

Karl Pearson's Coefficient of Skewness = 0.42, Arithmetic Mean = 86, Median = 80.

39) Calculate median

Wages (less than) Rs. :	10	20	30	40	50	60	70	80
No. of workers :	15	35	60	84	96	127	198	250

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