M 2476

Reg. No. : .....

Name : .....

I Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./B.A. Afsal Ul Ulama Degree (CCSS–Reg./Supple./Improv.) Examination, November 2012

COMPLEMENTARY COURSE FOR COMMERCE CORE

1C01 COM : Business Statistics

Time : 3 Hours Max. Weightage : 30

PART – A

This Part consist of **two** bunches of questions carrying **equal** weightage of **one**. **Each** bunch consists of **four** objective type questions.

I. 1) In the development of statistical methods, the greatest contribution is that of

a) Economists b) Mathematicians

c) Business men d) Scientists

2) Geographical classification means classification of data according to

a) Time b) Interval

c) Attributes d) None of the above

3) Which of the following should be avoided as methods of presenting data ?

a) Spheres b) Bars

c) Pie diagrams d) Pictograms

4) Which of the following is the most unsuitable average ?

a) Mode b) Median

c) Geometric mean d) Harmonic mean **(W=1)**

II. 5) C.V. is calculated by

a) $\frac{\overline{X}}{\sigma} \times 100$ b) $\frac{\sigma}{\overline{X}}$

c) $\frac{\sigma}{\overline{X}} \times 100$ d) None of the above

P.T.O.

6) If a distribution is positively skewed, the mean of the distribution is

a) Greater than the mode
b) Lesser than the mode
c) Equal to the mode
d) None of these

7) The median of the following distribution 5, 10, 15, 22, 14, and 18 is

a) 14
b) 15
c) 14.5
d) None of these

8) The 3rd quartile of the following distribution of 15, 12, 20, 18, 14, 17, 22 is

a) 20
b) 17
c) 18
d) None of the above (W=1)

PART – B

Answer **any eight** questions in **one** or **two** sentences **each**. **Each** question carries **a** weightage of **one**.

9. What do you mean by variable ?

10. Explain regular and ad hoc enquiry.

11. What is "Schedules sent through enumerators" ?

12. What is stratified sampling ?

13. Explain open-end distribution.

14. What is two dimensional diagrams ?

15. Explain Leptocurtice curves.

16. 'There are certain practical uses for weighted arithmetic mean.' What are they ?

17. What do you mean by inter quartile range ?

18. What is negative skewness ? **(W=8×1=8)**

PART – C

Answer **any six** questions. Answer not to exceed **one** page. **Each** carries a weightage of **two**.

19. What is range ? What are the uses of range ? Also state its limitations.

20. Define mode. State the significance of mode. State its limitations.

21. What are the functions of statistics ?

22. From the following find median graphically.

Mark	0–10	10–20	20–30	30–40	40 and above
f	5	15	22	30	20

23. Find out quartile deviation from the following :

X	10	20	40	80	50	42	45
f	7	5	8	9	20	8	3

24. The price of a commodity has decreased 5% in the first year, 8% in the second year and 10% in the third year. Find out the average decrease of prices for the whole years.

25. The mean value of 20 items were found to be 70. While calculating the mean, 38 and 48 were taken instead of 58 and 60. Find the correct value of mean.

26. Find the coefficient of skewness from the following :

    Difference of two quartiles = 8

    Mode = 11, Sum of two quartiles = 22

    and Mean =8

(W=6×2=12)

PART – D

Answer **any two**. **Each** question carries a weightage of **four**.

27. "Statistics are numerical statements of facts. But all facts numerically stated as not statistics". Comment and explain.

28. Find Bowley's coefficient of skewness for the following :

No. Children per family	0	1	2	3	4	5	6
No. of families	7	10	16	25	18	11	8

29. From the following find out appropriate quantity index.

	Year 2005		Year 2007	
Commodity	**Price**	**Quantity**	**Quantity**	**Price**
A	10	8	10	12
B	15	12	15	20
C	9	7	10	10
D	12	6	9	15

(W=2×4=8)