2020/TDC(CBCS)/ODD/SEM/ COMGE–301T/343

TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

COMMERCE

(3rd Semester)

Course No. : COMGE–301T

(Business Statistics)

$\dfrac{\textit{Full Marks} : 50}{\textit{Pass Marks} : 20}$

Time : 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any *fifteen* of the following as directed :

1×15=15

1. Name one method of collecting primary data.

2. Which mean is most affected by extreme values?

(Turn Over)

3. Write down the empirical relation between mean, median and mode.

4. What is the range of variance?

5. What is the range of Bowley's coefficient of skewness?

6. Write down the formula for coefficient of variation.

7. Define trial and event.

8. Write down one property of probability.

9. Write down the recurrence relation for the probabilities of Binomial distribution.

10. If A and B are two mutually exclusive events, then what is the value of $P(A \cup B)$?

11. What is the mean of Poisson distribution?

12. Name a continuous distribution.

13. Two independent variables are correlated/ uncorrelated.

(Choose the correct answer)

14. What is the range of correlation coefficient?

15. What is regression coefficient?

16. Give one example of zero correlation .

17. What is the relation between correlation and regression coefficient?

18. Write down the regression equation of Y on X.

19. What is price index number?

20. Write the formula for Paasche's price index number.

(4)

21. Name the tests for index number.

22. Write one limitation index number.

23. Write two components of time series.

24. Name two methods of measuring trend.

25. Name two basic principles of sample survey.

26. Write one limitation of sample survey.

27. Write one advantage of stratified random sampling.

28. What is the another name of population?

29. Write one disadvantage of systematic sampling.

30. Write one advantage of random sampling.

10-21/**331** (Continued)

(5)

SECTION—B

Answer any *five* of the following questions :

2×5=10

31. Define Harmonic mean (HM). Also write down the use of Harmonic mean.

32. Define standard deviation (SD). Write two advantages of SD.

33. Define axiomatic definition of probability.

34. Write down the conditions for Binomial approximation to Normal.

35. Name two methods to study correlation.

36. Explain why there are two regression lines.

37. Define weighted aggregate method to construct cost of living index number (CLIN).

38. Write four advantages of time-series analysis.

39. Define parameter and statistic.

40. Define point and interval estimation.

10-21/**331** (Turn Over)

SECTION—C

Answer any *five* of the following questions :

5×5=25

41. Prove that $AM \geq GM \geq HM$.

42. Prove that for any discrete distribution, standard deviation is not less than mean deviation from mean.

43. Derive Poisson distribution as a limiting case of Binomial distribution.

44. Write down the properties of normal distribution.

45. Prove that $-1 \leq r \leq 1$.

46. Write down the properties of regression coefficients.

47. "Fisher's index number formula is called an ideal index number formula." Explain why.

48. What is cost of living index number (CLIN)? Also write the uses of CLIN.

49. Briefly explain Type—I and Type—II errors.

50. Show that in case of SRSWR as well as in case of SRSWOR sample mean is an unbiased estimator of the population mean.

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2020/TDC(CBCS)/ODD/SEM/
COMSEC–301T/346

**TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021**

COMMERCE

(3rd Semester)

Course No. : COMSEC–301T

(E-Commerce)

Full Marks : 35
Pass Marks : 14

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any *ten* of the following as directed :

1×10=10

1. Define electronic commerce.

2. Mention one benefit of e-commerce to customers.

3. Differentiate between e-commerce and e-business.

(2)

4. What are the e-commerce security threats?

5. Define spoofing.

6. What is cryptography?

7. What is 'payment gateway'?

8. Define the concept of 'e-cash'.

9. What is the difference between a smart card and a debit card?

10. Online buying and selling shares and other financial instruments is known as _____.

   (Fill in the blank)

11. Selling goods through Flipkart or eBay.com is what kind of e-business activity?

12. Define e-tailing.

13. Define HTML layout.

14. What are attributes in HTML?

15. What is 'Marquee' Tag in HTML?

(Continued)

(3)

SECTION—B

Answer any *five* of the following questions :   2×5=10

16. What are the different types of e-commerce options for online selling?

17. Mention two challenges of e-commerce.

18. What is encryption?

19. What is the significance of Data Encryption Standard (DES)?

20. What is online marketing?

21. What is meant by 'Merchant Account'?

22. Highlight the difference between online marketing and traditional marketing.

23. What do you understand by 'web portal'?

24. What is the key difference between HTML elements and tags?

25. What is the use of comments in HTML?

(Turn Over)

(4)

SECTION—C

Answer any *five* of the following questions :   3×5=15

26. What are the advantages of e-commerce?

27. Explain the future prospects of e-commerce.

28. Mention the features of the IT Act, 2000.

29. Explain the significance of customer privacy and transaction security in e-commerce.

30. Describe various e-payment systems with benefits.

31. What are the security issues involved and its solutions related to e-payment systems?

32. What are the challenges of online education in India? Also point out some solutions.

33. How are auctions performed in online mode?

34. What is HTML table tag? What are the different HTML tags used to display the data in a tabular form?

35. What is cascading style sheet in HTML? What are its three types?

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