

**2021/TDC/CBCS/ODD/
COMGE-301T/343**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

COMMERCE

(3rd Semester)

Course No. : COMGE-301T

(Business Statistics)

Full Marks : 50

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. What do you understand by the term 'data'?**
- 2. Name one discrete distribution.**
- 3. What is the relation between correlation coefficient and regression coefficient?**

(2)

4. Write the formula for ideal index number.
5. What is the range of correlation coefficients?
6. For any given set of observations,
 $AM \geq \text{---} \geq HM.$
 (Fill in the blank)
7. What are different types of sample?
8. Calculate the geometric mean of 3, 9 and 27.
9. What is the range of probability?
10. Write down the Laspeyre's formula for calculating index number.
11. What is a time series?
12. Define conditional probability.
13. Define Karl Pearson's coefficient of correlation.
14. What is a statistical unit?
15. State multiplication law of probability.
16. How many components are there in time series?

(3)

17. What is the difference between sample and population?
18. What are the different measures of central tendency of a set of observation?
19. If the correlation between the variables X and Y is negative, then regression coefficient of X and Y is _____.
 (Fill in the blank)
20. What is the total number of all possible outcomes (cases) associated with the tossing of two dice?

SECTION—B

Answer any *five* of the following questions : $2 \times 5 = 10$

21. Calculate the median from the following data :
 57, 58, 61, 42, 38, 65, 72, 66
22. You are given that the variance of x is 9. The regression equations are $8x - 10y + 66 = 0$ and $40x - 18y = 214$. Find average value of x and y .
23. What are the essential requirements of a time series?

(4)

24. Find the standard deviation from the following observations :

1, 2, 3, 4, 5, 6, 7, 8, 9

25. What are the sources of secondary data?

26. Define sampling and non-sampling errors.

27. Write a note on method of least square.

28. Find the coefficient of correlation between x and y from the following data :

$$\Sigma x = 125, \Sigma y = 100, \Sigma xy = 508,$$

$$\Sigma x^2 = 650, \Sigma y^2 = 460, n = 25$$

29. What is the chance of getting a king in a draw from a pack of 52 cards?

30. Write down two properties of binomial distribution.

SECTION—C

Answer any *five* of the following questions : $5 \times 5 = 25$

31. (a) Give the classical definition of probability.

- (b) What is the probability of getting 6 heads in 10 throws of a fair coin?

$$3+2=5$$

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(Continued)

(5)

32. You are given the following data :

$$\bar{x} = 36, \bar{y} = 85, \sigma_x = 11, \sigma_y = 8, r_{xy} = 0.66$$

Obtain the lines of regression and estimate the value of x when $y = 75$.

33. Find the mean and median of the following distribution :

Marks	:	0-10	10-20	20-30	30-40
No. of Students	:	5	8	7	12
Marks	:	40-50	50-60	60-70	70-80
No. of Students	:	28	20	11	9

34. "Index numbers are called economic barometer." Justify the comment.

35. Fit a linear trend by the method of least square :

Year	:	1975	1976	1977	1978	1979	1980
Production	:	7	10	12	14	17	24
(₹ in crores)							

36. What are the properties of correlation coefficients?

37. Given below the bivariate data :

x	:	2	4	5	6	8	11
y	:	18	12	10	8	7	5

Calculate the value of Karl Pearson's coefficient of correlation.

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(Turn Over)

(6)

- 38.** Calculate standard deviation and coefficient of variation from the following data :

<i>Marks</i>	:	0-10	10-20	20-30	30-40
<i>No. of Persons</i>	:	5	10	20	40
<i>Marks</i>	:	40-50	50-60	60-70	70-80
<i>No. of Persons</i>	:	30	20	10	4

- 39.** Define normal distribution. Under what condition, normal distribution becomes standard normal distribution?
- 40.** Write a note on the utility of standard error.

**2021/TDC/CBCS/ODD/
COMSEC-301T/346**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

COMMERCE

(3rd Semester)

Course No. : COMSEC-301T

(E-commerce)

Full Marks : 35

Pass Marks : 12

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. What is e-commerce?**
- 2. What are different e-commerce business models?**
- 3. Define Web portal with an example.**

(2)

4. Secret key encryption is also known as _____.

(Fill in the blank)

5. What is Electronic Data Interchange?

6. What is Cascading Style Sheet in HTML?

7. Define digital currency.

8. What are tags and attributes in HTML?

9. What is outsourcing of business?

10. _____ is the service provider which is used for payments through Web.

(Fill in the blank)

11. Define cyber vandalism.

12. What is the role of e-tailing in e-commerce?

13. What are the uses of hypertext links?

14. Mention the most common types of electronic fund transfer.

15. What is hypertext?

(3)

SECTION—B

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

16. Briefly explain the B2B and B2C business models.

17. What is online shopping application? Give examples.

18. Define phishing and spoofing.

19. What are the components of electronic payment system?

20. Write a short note on Spamming and Denial of Service (DoS) attacks.

21. In what sense public key encryption is different from private key encryption?

22. Discuss how cryptography and digital signatures can solve the security issues in e-commerce.

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

24. How to ensure secured business transaction through e-commerce?

25. "E-business is rapidly growing industry." Justify the statement.

(4)

SECTION—C

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

26. Explain the advantages of e-commerce to the society.
27. What are the shortcomings of e-commerce?
28. Write the difference between e-commerce and traditional commerce.
29. What are the e-commerce security threats?
30. What are the factors influencing the successful implementation of e-commerce?
31. Explain how Intranet is important for a business.
32. Briefly explain the significant features of the IT Act, 2020.
33. Discuss various types of electronic payment system required in e-commerce.
34. What is HTML table tag? What are different HTML tags used to display the data in a tabular form?
35. Describe the significance of customer's privacy and transaction security in e-commerce.

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**2021/TDC/CBCS/ODD/
COMDSC-301T/344**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

COMMERCE

(3rd Semester)

Course No. : COMDSC-301T

(Company Law)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

SECTION—A

Answer any *twenty* of the following questions :

1×20=20

- 1. What do you mean by one-person company?**
- 2. What is an illegal association?**

(2)

3. What is the full form of ROC?
4. Where is principal bench of the NCLT located?
5. In which year latest Companies Act has come into effect?
6. Point out one clause of Memorandum of Association.
7. How can the articles of a company be altered?
8. "A company can issue only two types of shares." What are these?
9. What is meant by buyback of shares?
10. Point out one feature of transmission of shares.
11. What is the maximum number of directors in a one-person company?
12. What is the full form of DIN?
13. What is meant by Adjournment of Meeting?

(3)

14. Point out one liability of directors.
15. Who can be a director?
16. What is the mode of payment of dividend in a company?
17. Who determines the rate of dividend?
18. Can final dividend once declared be revoked?
19. What is the period for which books of account must be retained by the company?
20. What is the necessary qualification of an auditor for appointment as the auditor of the company?
21. Who cannot file a petition for winding-up?
22. Who is an official liquidator?
23. Can a public company be wound-up by the tribunal when the number of its members falls below seven?
24. What is insider trading?
25. What are the modes of winding-up in a company under the Companies Act, 2013?

(4)

SECTION—B

Answer any *five* of the following questions : $2 \times 5 = 10$

26. Define a government company.
27. Who is a promoter?
28. Write a short note on issue of bonus shares.
29. Point out any two elements of prospectus.
30. Mention any two duties of a company director.
31. Narrate any two rights of a company director.
32. What is meant by Secretarial Audit?
33. Mention any four statutory books of a company.
34. Explain the term 'liquidator' of a company.
35. Point out any two consequences of a winding-up order.

(5)

SECTION—C

Answer any *five* of the following questions :

 $8 \times 5 = 40$

36. "A joint-stock company is an artificial person created by law with a perpetual succession and a common seal."
Elaborate the statement, explaining the characteristics of the joint-stock company.
37. Explain the various agencies concerned with the administration of the Companies Act.
38. Give a brief account of the contents of Articles of Association.
39. Briefly explain the latest guidelines issued by the government in regard to the issue of bonus shares.
40. Briefly discuss the provisions of the Companies Act, 2013 regarding appointment of directors of a company.
41. Discuss in brief the various processes followed by the applicant to obtain DIN.
42. What are the provisions under the Companies Act, 2013 relating to payment of dividend?

(6)

- 43. Discuss the legal position of auditors under the Companies Act, 2013.
- 44. Summarise the circumstances for compulsory winding-up of a company.
- 45. Distinguish between members voluntary winding-up and creditors voluntary winding-up.

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