

**ACFCA**

Register No.

--

**2018**

**COMPUTER APPLICATIONS**

**Duration : 3 Hours**

**Max. Marks : 300**

*General Instructions to the Applicants :*

- i) **This Question Paper is descriptive type in Degree Standard.**
- ii) **There is no reservation of marks for neatness of execution and correctness of spelling in respect of this paper.**

TNPSC SPECIMEN

**TNPSC SPECIMEN**

# COMPUTER APPLICATIONS

## PART — A

**Note :** i) Answer not exceeding 50 words each.

ii) Each question carries three marks.

iii) Answer any thirty questions only out of thirty five Questions.

(30 × 3 = 90)

1. Find the number of relations from  $A = \{a, b, c\}$  to  $B = \{1, 2\}$ .
2. Find  $x, y, z, w$  if  $\begin{pmatrix} x+y & 2z+w \\ x-y & z-w \end{pmatrix} = \begin{pmatrix} 3 & 5 \\ 1 & 4 \end{pmatrix}$ .
3. Find the Truth Table of the following :
  - (a)  $p \wedge (q \vee r)$
  - (b)  $(p \wedge q) \vee (p \wedge r)$
4. List the advantages of co-operating processes.
5. State the advantages of using compliment methods for binary subtraction.
6. What is the function of Digital Comparator? Draw the block diagram.
7. What is meant by mutual exclusion?

8. What is a Ripple counter? Why it is called so?
9. List the various operators in C.
10. What is meant by 'this pointer'?
11. List the basic data types in C with its size.
12. Write the advantages of functions.
13. What are Virtual Meeting Systems?
14. Write a short note on the key areas of business that uses information systems.
15. Mention the role of Information Technology in improving the business processes.
16. What is Multicast Routing?
17. What is frame relay, In which layer it comes?
18. Write the services of transport layer?
19. What is Attenuation and Distortion?
20. Write the advantages of network model than hierarchical model.
21. What is closed hashing?

22. What are the levels of abstractions?
23. Write the procedure to copy and move the text.
24. How to add bullets and numbers to a word document?
25. What do you mean by hypermedia?
26. What is the responsibility of video specialist?
27. List out any three Drawing Software.
28. How E-mail works in Internet?
29. What is column group in HTML?
30. How will you integrate graphic images into a document? Give example.
31. State the advantages of working in groups.
32. Mention the different types of leadership styles.
33. Define the term 'Leadership'.
34. Define Organisational Behaviour.
35. Define the term 'Group'.

## PART — B

**Note :** i) Answer not exceeding 100 words each.

ii) Each question carries eight marks.

iii) Answer any **fifteen** questions only out of **eighteen** Questions.

(15 × 8 = 120)

36. Evaluate the determinant of

$$\begin{pmatrix} 3 & -2 & -5 & 4 \\ 1 & -2 & -2 & 3 \\ -2 & 4 & 7 & -3 \\ 2 & -3 & -5 & 8 \end{pmatrix}$$

37. Construct multiplexer and explain.

38. What is a hit ratio? Explain briefly.

39. Write the syntax of inline function and explain.

40. Narrate the use of copy constructor with an example.

41. Write short notes on Electronic Data Interchange and give their advantages.

42. Discuss the benefits of Electronic Commerce Applications in detail.

43. Discuss the advantages and disadvantages of Optical Fiber.
44. Briefly explain the shortest path routing algorithm with example.
45. Explain the various disadvantages of file processing systems.
46. Discuss how network database has been implemented.
47. Explain the procedure to print viewing and printing a word document.
48. How to make digital audio files? Explain.
49. Write down the features of 3-D modeling tool.
50. How to link web pages? Explain with an example.
51. Discuss the various tags used for text formatting.
52. What are sources of attitude? Explain briefly.
53. How do you measure job satisfaction? Explain.

## PART — C

**Note :** i) Answer not exceeding 200 words each.

ii) Each question carries fifteen marks.

iii) Answer any six questions only out of nine questions.

(6 × 15 = 90)

54. Write Banker's algorithm and explain.
55. Explain the storage classes in C.
56. What are transaction processing systems? Explain the steps in processing a transaction.
57. What is multiplexing? Discuss its types.
58. Explain how a network database table has been converted into hierarchical structure. Write the algorithm and give example.
59. Discuss the various charts found in Excel. How to create charts using chart wizard?
60. Discuss the various types of authoring tools.
61. How to create a table in <HTML>? Explain the various tags used to construct a table with suitable example.
62. What are the actions to be taken for developing positive attitudes? Explain.