

# O/L ICT

Information and Communication  
Technology

**Online Question Book**

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## Information and Communication Technology (ICT)

### Grade 11

Sinhala / English medium

By Nirosha Silva

1. How many digits (bits) are used to represent a character in popular coding systems?
2. What is ANSI stands for?
3. How many characters in ASCII coding system?
4. Represent the decimal number 312 in ASCII form?
5. Represent the decimal number 312 in EBCDIC form?
6. Represent the decimal number 312 in BCD form?
7. What is a Truth Table?

8. Draw a Truth Table for 4 inputs OR Operation?

9. Write an expression to denote "X equals A OR B"?

10. What is the mathematical sign stands for OR Operation?

11. Draw a Truth Table for 3 inputs AND Operation?

12. Write an expression to denote "X equals A AND B"?

13. What is the mathematical sign stands for AND Operation?
14. Draw a Truth Table for NOT Operation?
15. Write an expression to denote "X equals NOT A"?
16. What is the sign stands for OR Operation?
17. What is a Logic Gate?
18. What are the basic logic gates?
19. What are the two LOGIC STATES in a logic gate?
20. How many Volts represent the low state?
21. How many Volts represent the high state?
22. Draw 2 inputs AND gate?

23. How we write the output of above AND gate?

24. Draw a Truth Table for 3 inputs AND gate?

25. Draw a circuit diagram for AND operation which has two switches, batteries and a bulb?

26. Draw 2 inputs OR gate?

27. How we write the output of above OR gate?

28. Draw a Truth Table for 3 inputs OR gate?

29. Draw a circuit diagram for OR operation which has two switches, batteries and a bulb?

30. Draw a NOT gate?

31. How we write the output of NOT gate?

32. Draw a Truth Table for NOT gate?

33. Draw a 3 inputs NAND gate?

34. Write the output of above NAND gate?

35. Draw a Truth Table for 3 inputs NAND gate?

36. Draw a 3 inputs NOR gate?

37. Write the output of above NOR gate?

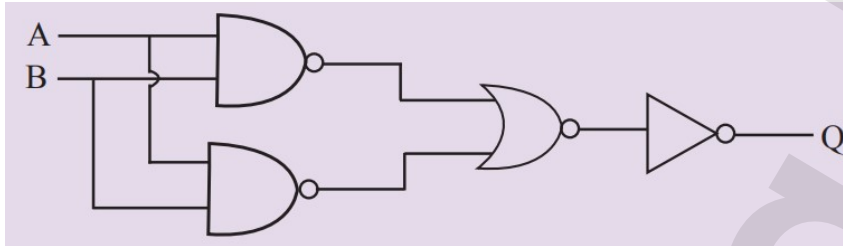
38. Draw a Truth Table for 3 inputs NOR gate?

39. Develop a truth table to prove the equation  $A' + B' * C' = (A * (B + C))'$

40. Develop a truth table to prove the equation  $(A * (B * C))' = A' + (B * C)$

41. Draw a Circuit diagram for  $A + (B * C)$

42. Write Boolean expression for the circuit below?



43. Draw a flow chart and write a Pseudo Code to display the suitable grade for a mark entered according to the given criteria below.

- 0 – 34 → “W”
- 35 – 49 → “S”
- 50 – 64 → “C”
- 65 – 74 → “B”
- 75 – 100 → “A”

44. How do we declare a variable called student\_name to store a student name in pascal?



45. What are the Operator types available in pascal?
46. What are the 3 control structures?
47. Write some syntax for If ... Then ... Else condition in pascal?
48. What is a computer operating system?
49. What is an utility software?
50. What is a language translator?

51. What is application software?

52. Write several operating systems?

53. What are the types of operating systems?

54. What are the 2 main services of an operating system?

55. What are the main processes done in hardware management of an operating system?

56. What is a file extension?

57. Write 5 file extensions and their file types?

58. What are the 2 types of user interfaces in an operating system?

59. What is MS-DOS stands for?

60. Write 5 MS-DOS commands and their use?

61. What is disk partitioning?

62. Why do we need partitioning?

63. What is disk formatting?

64. What is fragmentation?
65. What is disk defragmentation?
66. What is a device driver?
67. What are the formatting types available in MS-Word?
68. What is the maximum font size we can apply in MS-Word?
69. What is the unit of measure of font size in MS-Word?
70. What is the connection between above unit of measure and inches?
71. What is the file extension of a word file?
72. What we can do by using following shortcut keys?
- |            |            |
|------------|------------|
| Ctrl + A → | Ctrl + E → |
| Ctrl + B → | Ctrl + F → |
| Ctrl + C → | Ctrl + I → |
| Ctrl + X → | Ctrl + J → |
| Ctrl + V → | Ctrl + K → |
| Ctrl + P → | Ctrl + L → |
| Ctrl + S → | Ctrl + N → |