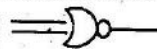
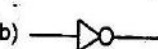
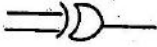
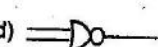


Time Allowed : 2.30 Hours [Maximum Marks : 70]

Instructions : (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.  
 (2) Use Blue or Black ink to write and underline and pencil to draw diagrams.

Note : (i) Answer all the questions.  
 (ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

1. Plotter is a \_\_\_\_\_ device.  
 a) storage    b) input    c) output    d) memory
2. Line printers are capable of printing much more than \_\_\_\_\_ lines per minute.  
 a) 1000    b) 1200    c) 1500    d) 1300
3.  $\bar{A} =$  \_\_\_\_\_  
 a)  $\bar{A}$     b) 1    c) 0    d) A
4. Which one is XOR gate?  
 a)     b)   
 c)     d) 
5. Blue Ray disc can store upto \_\_\_\_\_ GB of Data.  
 A) 50    (B) 6.4    (C) 6.2    (D) 70
6. To connect mouse and keyboard to PC \_\_\_\_\_ is used.  
 a) VGA    b) SCSI    c) PS/2    d) HDMI
7. In which version start button was removed?  
 a) Windows 10    b) Windows 8    c) Windows NT    d) Windows 98
8. To rename a folder click \_\_\_\_\_ button.  
 a) F2    b) F3    c) F10    d) F4
9. Who developed C++?  
 a) Charles Babbage    b) Bjarne Stroustrup    c) Bill Gates    d) Sundar pichai
10. In flowchart \_\_\_\_\_ boxes represent inputs given and outputs produced.  
 a) Rectangle    b) Parallelogram    c) Diamond    d) Triangle
11. There are \_\_\_\_\_ important control flow statements.  
 a) 2    b) 4    c) 6    d) 3
12. How many times the loop is iterated?  
`i := 0`  
`While i ≠ 5,`  
`i := i + 1`  
 a) 4    b) 5    c) 6    d) 0
13. Which one of the following is the Android operating system version?  
 a) Kitkat    b) Lollipop    c) Beta    d) All the above
14. Identify the odd one from the keyword of jump statements:  
 a) break    b) switch    c) goto    d) continue

15. Which of the following function is with a return value and without any argument  
 a) `x=display(int, int)`    b) `x=display()`  
 c) `y= display(float)`    d) `display(int)`

**Part - II**

- II. Answer any 6 questions. Qn.No. 24 is Compulsory. 6 x 2 = 12
16. Write notes on fifth generation computers.
  17. What is BCD?
  18. What is meant by a token? List out the types?
  19. What is a single user operating system?
  20. Save, Save As – Differentiate.
  21. What is Abstraction?
  22. What is modifier and list out the types of modifiers ?
  23. Define function and write the advantages of function.
  24.  $C = \bar{A} \cdot B + A \cdot \bar{B} \rightarrow$  Draw the logic circuit.

**Part - III**

- III Answer any 6 questions. Qn. No. 33 is Compulsory. 6 x 3 = 18
25. Write notes on multimedia projector.
  26. Explain byte, bit, nibble.
  27. What is file access level?
  28. Define clock speed.
  29. Write output of the C++ program.  
`# include <iostream>`  
`using namespace std;`  
`int main( )`  
`{`  
`cout<< " welcome to programming in c ++ " ;`  
`return 0;`  
`}`
  30. Write a notes on type conversion in C++ ?
  31. Write about (i) `strlen()`, (ii) `isdigit()`, (iii) `strcat()`
  32. What is a recycle bin?
  33. State reason why we cannot find 1's complement for 2810 ?

**Part - IV**

- IV. Answer all the question 5 x 5 = 25
34. Differentiate impact and non-impact printers. (OR)  
 Prove DeMorgan's First Law using truth table.
  35. Explain I / O operators with syntax and give example. (OR)  
 Explain Distributed Operating System.
  36. Write the similar icons of windows operating system that was used in Ubuntu operating system. (OR)  
 Explain for loop with example ?
  37. Explain scope rules of variables in C++ with example ? (OR)  
 Convert: i)  $8BC_{16} = ( )_2$     ii)  $6213_8 = ( )_2$     iii)  $255_{10} = ( )_{16}$   
 iv) Add:  $-22_{10} + 15_{10}$     v)  $-98_{10}$  - Write the 2's complement.
  38. Explain RISC and CISC. (OR)  
 Write notes on: i) DVD    ii) EEPROM    iii) IOs operating system

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[Maximum Marks : 70

Time Allowed : 2.30 Hours]

Instructions : (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately  
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**PART – A**

6x2=12

Note : (i) Answer all the questions.

(ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

- Which type of booting is used when a system restarts?  
 (a) Warm booting (b) Touch boot  
 (c) Real boot (d) Cold booting
- How many bits constitute a word?  
 (a) 8 (b) 16  
 (c) 32 (d) determined by the Processor used
- Which amongst this is not an Octal number?  
 (a) 645 (b) 234 (c) 876 (d) 123
- Which one of the following is the main memory?  
 (a) ROM (b) RAM (c) Flash drive (d) Hard disk
- Which of the following OS is a commercially licensed operating system?  
 (a) Windows (b) UBUNTU (c) FEDORA (d) REDHAT
- What is changing the default appearance of the text called?  
 (a) Text Formatting (b) Page Formatting  
 (c) Special Formatting (d) Paragraph Formatting
- Operating system is a  
 (a) Application Software (b) Hardware  
 (c) System Software (d) Component
- Android is a  
 (a) Mobile Operating System (b) Open source  
 (c) Developed by Google (d) All the above
- \_\_\_\_\_ is a special folder to keep the files or folders deleted by the user.  
 (a) My Documents (b) Recycle Bin  
 (c) My Computer (d) Compressed folder
- Which is the default browser for Ubuntu?  
 (a) Firefox (b) Internet Explorer (c) Chrome (d) Thunderbird
- What is the short cut key used for Undo?  
 (a) Ctrl+E (b) Ctrl + U (c) Ctrl + Z (d) Ctrl+N
- Identify the extension of the Impress Presentation?  
 (a) .odp (b) .ppt (c) .odb (d) .ood
- Which is the first electronic spreadsheet?  
 (a) Excel (b) Lotus 1-2-3 (c) Visicalc (d) OpenOffice Calc

- A formula in calc may begin with  
 (a) = (b) + (c) - (d) &
- Which is the shortcut key to view the slideshow?  
 (a) F6 (b) F9 (c) F5 (d) F10

**PART – B**

Answer any 6 questions. Question No. 24 is compulsory.

6x2=12

- What is a Computer?
- What is Open Source?
- Convert (41)<sub>10</sub> into Binary Number
- What is HDMI?
- What is a GUI?
- Differentiate Input and Output Unit.
- How do you insert pictures in to your Document?
- What is a Cell Pointer?
- What is the difference between a slide and a slide show?

**PART - C**

Answer any 6 questions. Question No. 33 is compulsory.

6x3=18

- Add: a) -2210+1510 b) 2010+2510
- Name any three output devices.
- Write the specific use of cortana.
- Differentiate CD and DVD
- Define the Slide sorter view and its significance.
- Explain and list out examples of mobile operating system.
- Write down the steps involved in Copying files and folders using Send To method.
- Explain the types of Page Orientation available in Open Office Writer.
- Convert (98.46)<sub>10</sub> to Binary

**PART – D**

Answer all questions

5x5=25

- (a) Discuss the various generation of computers. (OR)  
 (b) What is Master Slide? How can you create it using Open Office Impress.
- (a) Explain in detail about the different mouse actions. (OR)  
 (b) Write the steps to generate the following series using calc. 5,10,15.....250
- (a) Convert the following Decimal numbers to Octal & Hexa decimal 51110 and 39910 (OR)  
 (b) Explain the versions of Windows Operating System.
- (a) Explain any three Secondary Storage Devices. (OR)  
 (b) Explain how a presentation can help a sales person to promote his / her products.
- (a) Explain the various types of Process Management by an OS.(OR)  
 (b) Write the steps to Find and Replace a word with another word in Open Office Writer.

Part-I

13. If  $i=5$  before the assignment  $i:i-1$  after the assignment, the value of  $i$  is

- a) 5            b) 4            c) 3            d) 2

14. File Management manages

- a) Files        b) Folders    c) Directory systems    d) All

15. NLP stands for

- a) Natural Language Processing  
b) National Language Processing  
c) Nano Line Printer                      d) None

Part-II

22. What is loop invariant?

23. What are the building blocks of an algorithm?

Part-III

29. Write the disadvantages of flowchart.

30. How to specify the techniques of an algorithm?

31. Write the specification format of an algorithm.

Part-IV

35. a) Explain different types of ROM.

36. b) Explain the fundamental logic gates with truth table.

37. a) Explain the types of encoding system.