1. Which of the following could be part of sensor?
2. **Thermometer**
3. Break
4. Clutch
5. Relay
6. None of the above
7. A favourable reason for automation is to
8. Decrease throughput
9. Raises assembly cost
10. **Perform difficult operations**
11. Increases no of operations
12. None of the above
13. The type of memory which is fast and temporarily stores the data which is immediately required for use is called as,
14. HDD
15. ROM
16. **RAM**
17. SDD
18. Four basic elements are required for an automated machine tool or production process. They are input interface, memory, output interface and
19. Logic
20. Software
21. NC type programming
22. None of the above
23. Which of the following can be the output of PLC?
    1. Relay coils
    2. Solenoids

3. Indicators

4. Motors

5. Lamp

6. Alarms

A. Only (1), (2), (3) and (4)

B. Only (3), (4),(5) and (6)

C. Only (1), (2),(3) and (5)

**D. All the (1), (2), (3), (4), (5) and (6)**

1. A solenoid
2. Can be used only in DC circuits
3. Is spring operated
4. **Is widely used in industrial automation**
5. None of the above
6. The PLC used in
7. Machine tools
8. Automated assembly Equipment’s
9. Moduling and extrusion Machine
10. **All of the above**
11. What is the process variable?
12. A manipulated variable
13. A Controlled variable
14. A process parameter that changes value
15. **All of the above**
16. Compared to open loop system, a closed loop system is:
17. More accurate
18. More complex
19. More stable
20. **All of the above**
21. None of the above
22. Robots consist of three basic components power supply, control(memory) console, and
23. Coaxial cable
24. Micro computer
25. **Mechanical arm**
26. Software
27. The result of a logic gate based on its input is known as a
28. Logic Table
29. **truth Table**
30. Output Table
31. Input Table
32. In a PLC, SCAN time is referring to the amount of time in which
33. Timer and counters are indexed by
34. One network of ladder logic takes to get complete
35. **The entire program takes to execute**
36. The technician enters the program
37. The Not function is equivalent to
38. **An Inverter**
39. An OR Gate
40. A Simplified one input and gate
41. None of the above
42. Current flows into the
43. Input terminal of a sinking Dc input Module
44. Input terminal of a sinking Output field device
45. Output terminal of a sinking input field device
46. **All of the above**

15. What conditions are required for a three input AND gate to have its output ON.

A**. A=1 B=1 C=1**

B. A=0 B=0 C=1

C. A=1 B=0 C=1

D. A=1 B=1 C=0

16. The capability of convention relay systems for complex operations is\_\_\_\_ that of the PLC’s

A. **Poor Than**

B. Excellent Than

C. As good as

D. Unpredictable as

17. Logic functions are used to generate

1. Only complex control Decisions
2. Simple Decisions
3. **Both simple and complex Decisions**
4. None of The above

18. CPU operations \_\_\_\_\_\_

1. **Executes the control Program stored in Memory in the form of Ladder diagrams**
2. Read the control Program stored in the microprocessor in the form of Ladder diagram
3. Updates the control program stored in memory in the form of Ladder diagram
4. None of the above

19. In current sinking DC input Module

1. **The current flows out of the input field device**
2. Requires that a AC sources be used with mechanical switches
3. The current flows out of the input module
4. Current Can flows in either directions as the input module

20. Elementary data type UNIT consist how many bits?

1. 8 bit
2. **16 bits**
3. 32 bits
4. 64 bits

21. Which data types is not available in s7 1200 PLC

1. Bool
2. Word
3. DWord
4. **LWord**

22. Ladder Logic programming consist Primarily of

A. Logic gates symbol and connecting lines

B**. virtual relay contacts and coils**

C. Functions blocks and connecting lines

D. Text based code

23. What is the function of OB1

1. **Cyclic program execution**
2. Time error interrupt
3. Programming error
4. None of the above

24. Which software is used with Siemens S7-1200 PLC?

1. Step 7 microwin
2. Simatic Manager
3. **TIA Portal**
4. Win CC

25. What is instance?

A**. The call of a function block is called instance**

B. Programming execution is called instance

C. error handling is instance

26. Organisation block for diagnostic hardware error interrupt in S7 1200 is:

A. OB 30

B. OB 121

C. **OB 82**

D. OB 1

27. Organisations blocks for cyclic interrupts in S7-1200 is

A. **OB 30**

B. OB 121

C. OB 80

D. OB 1

28. Which programming language is not support S71200 PLC?

A. FBD

B. **Statement List**

C. Structured control Language(SCL)

D. Ladder

29. How many program blocks available in S7 1200 PLC?

1. 1
2. 2
3. **3**
4. 4

30. CPU 1214 has \_\_\_\_ integrated digital input & \_\_\_\_ digital Outputs.

A. 10 & 12

B. 12 & 14

C. 12 & 10

D. **14 & 10**

31. In S7-1200, we define Timer value (PT) as\_\_\_\_\_

1. **T#1s**
2. T1
3. IEC 0
4. S5t#1s

32. PLC ‘S analog input/output has

1. 1-bit address
2. 1-byte address
3. **1-word address**
4. 1 double word address

33. In S7-1200 configuration we can insert up to\_\_\_\_\_ communication Module

1. 1
2. 2
3. **3**
4. 4

34. The real Data Type comprises of \_\_\_\_ Bits.

1. 8
2. 16
3. **32**
4. 6

35. In the control system the output of the controller is given to

1. **Final control Elements**
2. Amplifier
3. Comparator
4. Sensor

36. Which of the following is not a comparator instruction?

1. GEQ
2. EQU
3. **MOVE**
4. LIM

37. For the PLC Scan Cycle which one is correct?

1. Program execute output write input read
2. Input Read Output Write Program execute
3. **Input Read Program Execute Output Write**
4. Output Write Input Read Program Execute

38. How many signal Module we can connect to 1214C CPU?

1. **8**
2. 10
3. 32
4. 11

39. The symbol Represent(S) What instruction in the PLC Language?

1. Reset Output
2. **Set Output**
3. Assignment
4. Output Energise Instruction

40. Solenoids, Lamps motors are connected to

1. Analog input
2. Analog Output
3. Digital input
4. **Digital Output**

41. When \_\_\_\_\_ Contacts are actuated, they disconnected the power supply through them

1. N.O. Type
2. **N.C. Type**
3. Both (A)&(B)
4. None of the above

43. In S7-1214C CPU, default address of analog input starts from

1. IW 256
2. **IW 64**
3. IW 112
4. IW 96

44. Which of the following is the output of thermocouple?

1. Alternating current
2. Direct current
3. A.C. Voltage
4. **D.C. Voltage**

45. S7-1200 CPU Provides\_\_\_\_\_\_ Bytes of Retentive data?

1. 1024
2. **2048**
3. 128
4. 256

46. Which of the following cannot be an input that is given to an PLC?

1. Manual switches
2. Relay
3. Sensors
4. **None of the above**

47. A Control valve will Receive \_\_\_\_\_\_signal from an analog output module is the count is 27648.   
 The Module is configured for -10 V to 10V.

1. **10V**
2. 5 V
3. 8V
4. 7.5 V

48. A Sensor is a device that converts

1. Physical quantity into measurable signal
2. **Physical quantity into electrical signal**
3. Physical quantity into mechanical signal
4. Electrical signal into Physical signal

49. The PLC’s were Originally designed to Replace

1. Analog Controllers
2. DCS
3. Microcomputers
4. **Hardwired control**

50.The following is not a CPU of S7-1200 family\_\_\_\_\_\_\_

1. 1211C
2. 1212C
3. **1213C**
4. 1214C

51. In timer Block what is PV\_\_\_\_\_\_\_

1. **Preset value**
2. Permanent Value
3. Primary Value
4. Present Value

52. Programming Language for PLC is\_\_\_\_\_

1. FBD
2. STL
3. Ladder
4. **All the above**

53. HMI stands for

1. **Human Machine Interface**
2. Hard Machine interface
3. High Machine Interface

54. DCS Stands for

1. **Distributed control system**
2. Digital Control system
3. Data control System
4. Display control system

55. An OR Function Implemented in Ladder Logic Uses

1. Normally closed contacts in series
2. Normally open contact in series
3. **Normally open contacts in Parallel**
4. Normally closed contact in Parallel

56. Digital input of CPU 1214c is \_\_\_\_\_

1. 12 V DC
2. 230 VDC
3. **24 VDC**
4. 10 VDC

57. In a current sinking DC Input Module

1. **The current flows out of the input field devices**
2. The current flows out of the input module
3. Requires that a AC Sources be used with mechanical switches

58. CPU has gone in stop Module.

1. VAT
2. Operating Mode
3. **Diagnostic Buffer**
4. Clear/Reset

59. The Output of a feedback control system must be function of

1. **Reference & Output**
2. Reference & Input
3. Input & Feedback signal
4. Output & Feedback Signal