1. Components of a SCADA system are
   A. Design tool
   B. Runtime engine
   C. Design tool and Runtime engine
   D. None of above
2. Choose the correct answer
   A. Design tool creates a config file for an application, Runtime engine loads the config file of the application
   B. Runtime engine creates a config file for an application, Design tool loads the config file of the application
   C. Project Builder + Runtime Manager
   D. Project Builder + Runtime Manager
3. Citect has
   A. Project Builder
   B. Runtime Manager
   C. Project Builder + Runtime Manager
   D. Server
   E. Client and Server
   F. Project viewer
   G. Project viewer + Project maker
4. Windows Maker in Intouch is
   A. Application development tool
   B. Application execution tool
   C. Application development tool
   D. Application execution tool
   E. Flexible
   F. Only for grouping objects
   G. Trend Server
   H. Alarm Server
5. Windows Viewer in Intouch is
   A. Application development tool
   B. Application execution tool
   C. Application development tool
   D. Application execution tool
   E. Flexible
   F. Only for grouping objects
   G. Trend Server
   H. Alarm Server
6. Popular Industrial SCADA software packages have fixed drivers to allow to communicate with PLCs. After installation, additional drivers can be installed flexibly if needs
   A. Fixed
   B. Flexible
7. Folders in Citect have meaning:
   A. Citect supports object-oriented programming
   B. Only for grouping objects
   C. Trend Server
   D. Alarm Server
8. I/O Server has
   A. I/O devices
   B. Cluster
   C. Trend Server
   D. Alarm Server
9. On symbol when
   A. PUMP_1_CMD = 1
   B. PUMP_1_CMD := 1
   C. PUMP_1_CMD > 1
   D. A, B, C
10. On symbol when
    A. PIPE_PRESSURE > 8.0
    B. PIPE_PRESSURE > 8.0
    C. PIPE_PRESSURE > 8.0
    D. A, B, C
11. What picture format can be used by Symbol Set in Citect?
    A. Jpg
    B. Tif
    C. Bmp
    D. Tif
    E. Bmp
12. Continuous update of tag is applied for
    A. Movement
    B. Scaling
    C. Fill
    D. Slider
13. Click right-mouse-button to start a motor by variable Start_Motor. Cicode should be as
    A. Start_Motor
    B. Start_Motor = true
    C. Start_Motor = 1
    D. A, C
14. To toggle a variable Forward_Reverse (ON/OFF), Cicode should be as
    A. Toggle(Forward_Reverse)
    B. if Forward_Reverse = 1 then Forward_Reverse = 0
    C. Forward_Reverse = NOT Forward_Reverse
    D. A, C
15. How to import a bitmap to a Citect page for background
    A. Faste Symbol
    B. Symbol Set
    C. File => Import
    D. A, C
16. Choose the correct answer (Cicode)
    A. If Level > 2.0 then Pump = 1; end
    B. if Level > 2.0 then Pump = 1; end
    C. if Level > 2.0 then Pump = 1 end
    D. if Level > 2.0 then Pump := 1; end

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9. What type of picture format need to choose when coping a symbol (not rectangle figure) from CAD software to Citect
A Bitmap  
C jpg
D Gif

10. A Genie has using Toggle(\%Tag\%). Which Tag can be used appropriately?
A PUMP_1_CMD  
B PUMP_2_CMD
C Start
D A, B, C

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Device Communication, Integration and Advanced Functions ......./30 questions

1. Modbus TCP/IP has Port
A 26
B 80
C 502
D 2000

2. A running Intouch SCADA station has a Tag named WaterLevel. Choose the correct MS Excel formula to use for access to the Tag
A =INTOUCH/TAGNAME/WaterLevel
B =VIEW/TAGNAME/WaterLevel
C =VIEW/TAGNAME/WaterLevel
D =INTOUCH/TAGNAME/WaterLevel

3. An Excel file named SummaryReport.xls. For access to the column B row 4 on the sheet Area_1 of the file Factory.xls, a formula should be used as
A =ExcelFactory.xls.Area_1!R4C2
B =ExcelFactory.xls.Area_1!R4C2
C =ExcelFactory.xls.Area_1!R4C2
D =ExcelFactory.xls.Area_1!R4C2

4. Intouch plays the role as
A DDE server
B DDE client
C A and B
D None of above

5. A SCADA of a provider A communicates with a PLC of a provider B via
A 1/0 driver
B DDE server
C OPC server
D All above

6. DDE is a standard was created by
A Microsoft
B Schneider Electric
C Wonderware
D Rockwell Automation

7. In Citect, what "Protocol" should be appeared in I/O Device to connect with a Modbus TCP/IP device
A MODNET3
B MODBUS
C MODBUSTCP
D MODBUSTCPIP

8. In Citect, a Digital Alarm named MyAlarm, then the relation of "Variable Tag A" and "Variable Tag B" with MyAlarm is
A MyAlarm = (Variable Tag A) and (Variable Tag B)
B MyAlarm = (Variable Tag A) or (Variable Tag B)
C MyAlarm = (Variable Tag A) xor (Variable Tag B)
D MyAlarm = (Variable Tag A) = (Variable Tag B)

9. Analog Alarm is
A HI, LO, HI HI, LO LO
B Deviation
C Rate of Changed
D A, B and C

10. To indicate on a page the Tag Tank_2_Pressure with type REAL, the "Numeric expression" should be as
A Tank_2_Pressure = ####
B Tank_2_Pressure = ####
C Tank_2_Pressure
D = Tank_2_Pressure

11. A Tag in Citect communicates with %M121 in PLC M340 has address
A 400121
B 200121
C 300121
D 000121

12. A Tag in Citect communicates with %MW121 in PLC M340 has address
A 400121
B 200121
C 300121
D 000121

13. A Genie uses Pump_\%Tag\_Speed = 1500. Which Tag can be used appropriately?
A Pump_1_Speed
B Valve_1_CMD
C Pump_1_CMD
D A, B, C

14. For Alarms functions, in Citect need to be created a
A I/O Server
B Alarm Server
C A and B
D Trend Server

15. For Trends functions in Citect need to be created a
A I/O Server
B Alarm Server
C Trend Server
D A and C
16. I/O Device is located in
   A. I/O Server                       B. Alarm Server
   C. Trend Server                     D. Report Server
17. If the Address of a Variable Tag in Citect is declared 300123, then this Tag is
   A. Input only                       B. Output only
   C. Readable output                  D. None of above
18. If the Address of a Variable Tag in Citect is declared 400123, then this Tag is
   A. Input only                       B. Output only
   C. Readable output                  D. None of above
19. If the Address of a Variable Tag in Citect is declared 000123, then this Tag is
   A. Input only                       B. Output only
   C. Readable output                  D. None of above
20. If the Address of a Variable Tag in Citect is declared 100123, then this Tag is
   A. Input only                       B. Output only
   C. Readable output                  D. None of above
21. If the Address of a Variable Tag in Citect is declared 000234, then the Type of this Tag is
   A. DIGITAL                          B. INT
   C. DIGITAL                          D. REAL
22. If the Address of a Variable Tag in Citect is declared 400234, then the Type of this Tag is
   A. DIGITAL                          B. INT
   C. DIGITAL                          D. REAL
23. If the Address of a Variable Tag in Citect is declared 100234, then the Type of this Tag is
   A. DIGITAL                          B. REAL
   C. DIGITAL                          D. REAL
24. If the Address of a Variable Tag in Citect is declared 300234, then the Type of this Tag is
   A. DIGITAL                          B. REAL
   C. DIGITAL                          D. REAL
25. A supported Modbus TCP/IP PLC uses 0-based address. If Citect uses 1-start register to connect with the register
    400342 on the PLC, then the Address of Variable Tag in Citect should be declared as
    A. 400341   B. 400342   C. 400343
26. A supported Modbus TCP/IP PLC uses 0-based address. If Citect uses 0-start register to connect with the register
    400342 on the PLC, then the Address of Variable Tag in Citect should be declared as
    A. 400341   B. 400342   C. 400343
27. A supported Modbus TCP/IP PLC uses 1-based address. If Citect uses 1-start register to connect with the register
    400342 on the PLC, then the Address of Variable Tag in Citect should be declared as
    A. 400341   B. 400342   C. 400343
28. A supported Modbus TCP/IP PLC uses 1-based address. If Citect uses 0-start register to connect with the register
    400342 on the PLC, then the Address of Variable Tag in Citect should be declared as
    A. 400341   B. 400342   C. 400343
29. Type of a Tag to connect with an Output Coils is
    A. Boolean                           B. Integer
30. Type of a Tag to connect with an Inputs Register is
    A. Boolean                           B. Integer