King Abdullah II School of Information Technology

**Computer Skills2**

**Problem Solving Homework**

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**Choose the correct answer for each of the following questions:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Question** | **Choice 1** | **Choice 2** | **Choice 3** | **Choice 4** |
| **1.** | If the value of z is 2.1 x 10-3, then the data type of the z is: |  Integer |  Real  |  String | Boolean |
| **2.** | The data type of the following value "-3.5\*10^4" is: | Integer | Real | String | Boolean |
| **3.** | One of the following assignment statements is **correct** | y+1=3+x | A+2= 4 | A = B  | 22=A |
| **4.** | The value of Y after solving the following equation is: Y = 3\*2-10+5-(4\*1+2^-2\*4) | -4 | 5 | 11 | 7 |
| **5.** | The value of X after solving the following equation is:X= 16+3mod7\*2-4mod 3 | 21 | 17 | 18 | 11 |
| **6.** | The value of A after solving the following equation is:A= 4\*(5\*2^2/5+1)/(4+1)+2^4-9 | 39 | 9 | 10 | 11 |
| **7.** | The value of Z after solving the following equation isZ= 6-3^2 mod 10 <7 and not(5+2\*4<>12)or false | True | False | 3 | 0 |
| **8.** | The value of X after solving the following equation is:X = 10^2>100 or 2^(6-14mod8)=1 | True | False | 2 | 8 |
| **9.** | The value of Y after solving the following equation is:Y=not( 8mod10 =10mod8) or true and 3^2=3\*2 | True | False | 5 | 0 |
| **10.** | The output of the following flowchart is:f1 | 1 1 3 1 5 1 | 1 1 3 1 5 1 6 5 | 1 1 3 1 5 1 4 5 | None of them |
| **11.** | The structure of the flowchart in question 10 is  | Looping | Selection | Sequence | Can’t Determine |
| **12.** | The equivalent Pseudo Code for the flowchart in question 10 is: | 1. Start2. let x=5, n=1, m=13. print n, m4.Increment n by 2 5.If n<=x then goto36.n=n-1,m=m+47.Print n, m8. end | 1. Start2. let x=5, n=1, m=13. print n, m4.Increment n by 2 5.If n<=x then goto2 else n=n-16. m=m+47. end | 1. Start2. let x=5, n=1, m=13. print n, m4.Increment n by 2 5.If n<=x then n=n-1, m=m+46.Print n, m7. end | None of them |
| **13.** | What are the suitable words to be filled in the blanks so that the following pseudo code will:Print the summation of the odd numbers between 1 to 10.1. Start
2. count=1
3. sum=0
4. sum=sum+\_\_\_\_\_\_
5. count=count+2
6. if count<=10 then goto \_\_\_\_\_
7. print \_\_\_\_\_\_
8. Stop
 | 4. count6. step 47. count | 4. 26. step 47. sum | 4. count6. step 47. sum | 4. count6. step 37. count |
| **14.** | What is the output for the following flowchart:Assume that n= 10:f2 | 5 4  | 1 2 1 | 5 4 4 | None of them |
| **15.** | Which one of the following pseudo codes solve the following problem:**Printing numbers from 30 to 1 in descending order** | 1.Start2. c=303. Print c4.c=c+15.if c>=1 then goto 36.stop | 1.Start2. c=13. Print c4.c=c-15.if c>=30 then goto 36.Stop | 1.Start2. c=303. Print c4.c=c-15.if c>=1 then goto 36.Stop | None of them |
| **16.** | What is the output for the following codeIf the inputs are 4,7,31. c = 5
2. if c > 0 then goto 4
3. goto 9
4. input m
5. x=m+c
6. print x
7. c=c-2
8. goto 2
9. end
 | 5 3 1 | 9 10 | 9 10 4 | None of them |
| **17.** | Write the equivalent Pseudo Code for the following Flowchart | 1. Let a = 6, b = 102. If b-a = 0 then print "good" 3. if a+b<>10 then print x elsea=a-1 ,b=b+1,print a,b4. end | 1. Let a = 6, b = 102. If b-a = 0 then print "good" else if a+b<>10 then print x elsea=a-1b=b+1print a,b3. end | 1. Let a = 6, b = 102. If b-a = 0 then print "good" 3. if a+b<>10 then print x elsea=a-1 , b=b+15. print a,b6. end | None of them |
| **18.** | What is the output for the following flowchart: | good | 2 8 | good 2 8 | None of them |
| **19.** | What is the output from the following flowchart, use the following set of Integers for the values of y: 12 5 7 9 6 4a1 | 12 5 7 9 6 4 | 5 7 4 | 1 2 3 4 5 6 | 12 9 6  |
| **20.** | **The error in the following flowchart is:** | The symbol used for the start statement | The symbol used for the stop statement | The symbol used for the input statement | No error |
| **21.** | **The error in the following flowchart is:** | The symbol used for the start statement | The symbol used for the stop statement | The symbol used for the input statement | No error |