



COLLEGE OF COMPUTERS & INFORMATION TECHNOLOGY
FINAL EXAMINATION



Academic year: 2017-2018

Subject : Programming 1 Semester: 1

Day and Date: Saturday 10/02/2018

Level: 1

Examiner: Dr.Mohammed Bamatraf

Department: IT/CS

Duration: 2:00 hrs

B

Q1. Choose the correct answer اختر إجابة واحدة صحيحة فقط (15 marks)

1. evaluate the expression $((4 \& 2) << 1)$:

- a. 4 b. 0 c. 0100 d. 0010

2. which of the following is python keyword:

- a. FOR b. Else c. pycharm d. False

3. for x in range(7,5,-1):

print("Hello",end="") will give output as:

- a. HelloHello b. HelloHelloHello c. 7 and 6 d. no output

4. which of the following loops is infinite loop :

- a. while(22): b. if (2<3): c. for IF in range (2,3,4): d. infinite=4*2

5. which of the following is a programming language:

- a. microsoft b. google c. C# d. Battlefield 1.2

6. in-valid python expression ?

- A. x+2=3 B. if l in range (1,4,1): C. x += 2+2.5 D. PRINT ("Hello")

7. Evaluate (not(0 and (2 or 3))).

- A. True B. False C. Un-evaluatable غير قابل للتقييم

8. Which of the following is in-valid comparison operator?

- A. != B. == C. = D. >=

9 Lowest Priority operator:

- A. % B. and C. + D. >=

10. evaluate the expression $(4 // (2 + 5) \% 20)$:

- a. 0 b. 11 c. 7 d. Error

Q2. With the help proper example, briefly explain the following terms اشرح مع الاستعانة بمثال (10 marks)

- a. Flow chart
- b. Algorithm
- c. Interpreter
- d. Arrays

Q3. Detect 4 Errors in the following code, state why! , أخطاء بالكود أدناه مع توضيح السبب (10 marks)

```
arr = (2, 3, 4, "ALI", 22, 13)
28 = a
for x in range(0, 10, 1):
    if (arr(x) % 2 == 0):
        print("ODD")
    else:
        print(EVEN)
    else:
        print ("Zero")
a="15"
b="5"
print (a//b)
```



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Q3. Trace the following codes, and show the output *تتبع الخطوات ووضح ما هي المخرجات للأكواد التالية (10 marks)*

A.
x=6
while (x != 20):
 print (x,end=" ")
 x=x+5

B.
x=19
if (x//10==1):
 print (x)
else:
 print (x%10)
print ("Good Bye")

Q4. Answer any five of the following : (25 marks)

- Draw the flow-chart and write the program to read 3 numbers and print the maximum.
- Write a program to read two number and print them sorted in ascending order, *اقرأ عددين وأظهرهم مرتبين تصاعديا*
- Using while loop, write a python program to read 10 numbers and print them in reverse
باستخدام عبارة while اقرأ ١٠ أعداد وأظهرهم متسلسلة عكس الإدخال
- Write a program to print odd numbers between 90 and 70 in descending order *تنازليا من الأكبر إلى الأصغر*
- Write a program to check if a given number is prime or not.
- Write a program to define array of 5 names, then:
 - print the list individual name per line , *اطبع الأسماء كل اسم بسطر على حده*
 - Print the size of the array,
 - add one more name to the array. *أضف اسم إلى المصفوفة*
- write a program to print factorials of numbers between any given range. *مضروب الأعداد ضمن مدى معطى*

Good Luck....