- Solution of assignment 1 -

CS

1. a

2. $3^{(2*(4+(3 \bmod 4/2 - 1*(2+3))-2)+6)*3}$

$= 3^{(2*(4+(3 \bmod 2 - 5 - 2)+6)*3}$

$= 3^{(2((4+1)-5-2)+6)*3}$

$= 3^{(2x-2+6)*3}$

$= 3^{(2+6)*3}$

$= 3^2 * 3$

$= 27$

a

3. NOT 4<6-2 And 6 mod 12 >= 3*2 or not 12/3 <> 3^2

= NOT 4<6-2 And 6 mod 12 >= 3*2 or not 12/3<>9

= NOT 4<6-2 And 6 mod 12 >= 6 or not 4<>9

= NOT 4<4 And 6 mod 12 >= 6 or not 4<>9

= NOT 4<4 And 6>=6 or not 4<>9

= NOT False and True or not true.

= NOT False

= True and True or False

~~= True and True~~

= True. or false

= True

b

4.

C	X
1	2
2	3
3	5
4	

output
5
10
26
$

* c

5. string c *

6. d. or

* b

7.

X	y
5	8
7	

output
2
7
8

* c

8. b

* b

9. نتوقع ∅

yes
S = S+10
d = d+1
goto 4

NO
print x

→ 4. IF d<5 Then Increment s by 10
Increment d by 1
goto 4

5. print x.

→ The answer is c

*

10. Looping b

* b

Computer Skills for Medical Students Assignment 1 (Problem Solving)

Choose the correct answer for each of the following questions:

1. Which of the following assignment statement is incorrect:[1 mark]

a. K+2=20	b. X=3	c. K=X+2	d. A='a'

2. What is the value of X after solving the following equation? [1 mark]

3 ^ (2 * (4 + (3 Mod 4 / 2 - 1 * (2 + 3)) - 2) + 6) * 3

a. 27	b. 18	c. -3	d. -5

3. What is the value of Y after solving the following expression? [1 mark]

M = Not 4 < 6-2 And 6 mod 12 >= 3*2 Or Not12/3 <> 3^2

a. False	b. True	c. 2	d. 1

4. What is the output for the following pseudo code given the following numbers (2,3,5)[1 mark]

1. C = 1
2. If C < 4 then Go to step 4
3. Go to step 8
4. Input x
5. print x^2+1
6. Increment C by 1
7. Go to step 2
8. Print "$"
9. End

a. 2 3 5 $	b. 8 27 125 $	c. 5 10 26 $	d. 5 10 $

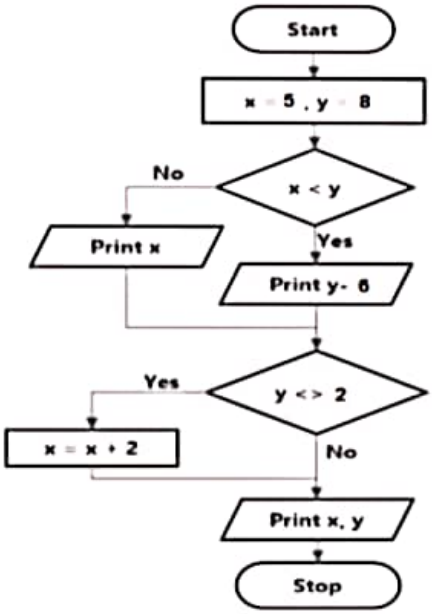
5. If the value of the variable C is "Skills" , then the datatype of C is : [1 mark]

a. Integer	b. Real	c. String	d. Boolean

6. The operator that has the Lowest priority in the following is : [1 mark]

a. /	b. ^	c. +	d. OR

7. What is the output from the following flowchart? [1 mark]



a. 2 5 8	b. 2 7 2	2 7 8	d. 2 5 2

8. The equivalent Pseudocode for the Flowchart in Question 7 is: [1 mark]

a.
1. Start
2. x=5 ,y=8
3. if x< y then print y-6
4. print x
5. if y<>2 then x=x+2
6. print x,y
7. stop

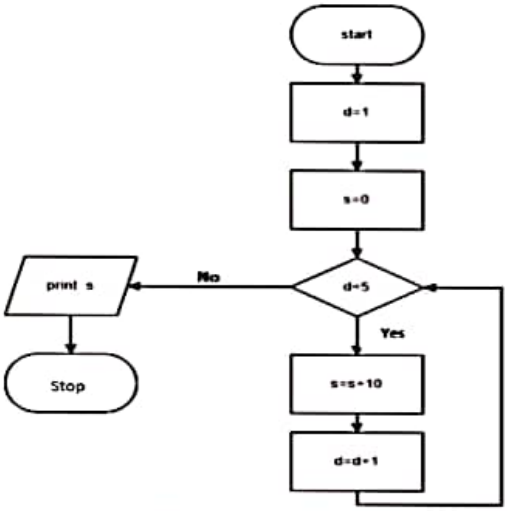
1. Start
2. x=5 ,y=8
3. if x< y then print y-6 else print x
4. if y<>2 then x=x+2
5. print x,y
6. stop

c.
1. Start
2. x=5 ,y=8
3. if x< y then print y-6 else print x
4. if y<>2 then x=x+2 else print x,y
5. stop

d. None of them

Computer Skills for Medical Students Assignment 1 (Problem Solving)

9. What is the equivalent Pseudo Code for the following Flowchart? [1 mark]



a.	b.	c.	d.
1. Start 2. Let d = 1 3. Let s = 0 4. If d <5 then Increment s by 10 Stop 5. d=d+1 6. print s 7. stop	1. Start 2. Let d=1 3. Let s=0 4. if d<5 then Increment s by 10 5. d=d+1 6. Print s 7. Stop	1. Start 2. Let d=1 3. Let s=0 4. If d <5 then Increment s by 10 Increment d by 1 Go to 4 5. Print s 6. Stop	1. Start 2. Let d=1 3. Let s=0 4. If d <5 then Increment s by 10 Increment d by 1 else Print s 5. Stop

10. The type of the Flowchart in Question 9 is :[1 mark]

a. Selection	Looping	c. Sequence	