University of Liberal Arts Bangladesh (ULAB)

MID TERM EXAMINATION
Spring 2020

Course No:	CSE 101 (Sec: 11)
Course Title:	Introduction to Computer Studies

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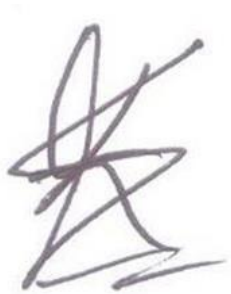
Date of examination:	23.03.2020

Obtained	**24**
Total	**25**



Signature of the Examiner

Answer No. 1

(a) $(1100000)_2 - (1011111)_2$

$\Rightarrow$

$$\begin{array}{r} 1100000 \\ 1011111 \\ \hline (0000001)_2 \end{array}$$

A.

(b) $(10111)_2 \div (10)_2$

$\Rightarrow$

$$\begin{array}{r|l} 10 \;\big)\; 10111 & 1011 \\ \;\;\;10 & \\ \hline \;\;\;0011 & \\ \;\;\;\;\;10 & \\ \hline \;\;\;\;\;11 & \\ \;\;\;\;\;10 & \\ \hline \;\;\;\;\;1 & \end{array}$$

Quotient 1011

Remainder 1

Answer No. 2

Algorithm:

Step-1 : Start

Step-2 : Input n

Step-3 : S=0, i=1

Step-4 : for i<=n repeat step 5

Step-5 : S = S+i*i , i = i+1

Step-6 : Print S

Step-7 : End

Pseudocode:

1. get n
2. S=0, i=1
3. for i<n repeat step 5
4. S= S+i*i , i = i+1
5. display S

Answer No.3

Various entities of "ULAB Moodle"

1. Software = google
2. Hardware = computer, mobile phone
3. User = All ULAB students and teachers.

Answer No.4

(a) If n is 9, than (9%2==0) is false. Because 9 cann't be divided by 2. So the value of i should be in increased to 3. Now (9%3==0) true.
So, Print "no"

(b) If n is 11, than (11%2==0) is false. Because 11 cann't be divided by 2. So the value of i should be in increased to 3, still (11%3==0) is false. If i=4 than (11%4==0) is false. ~~Because~~ But if i=11 then (11%11==0) true. So, Print "no"