University of Liberal Arts Bangladesh (ULAB)

MID TERM EXAMINATION

Spring 2020

Course No : CSE 101

Course Name : Computer study.

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Ans-to-the-Q-NO-1

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

```
  1100000
  1011111
---------
  0000001
```

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

```
10) 10111 (1011
    10
   ----
    011
     10
    ---
     11
     10
    ---
      1
```

Quotient : 1011

Remainder : 1

Ans-to-the-Q-NO-2

Algorithm

Step 1. Start

Step 2. Read number sum

Step 3. [Initialize]
sum = 0, i = 1

Step 4. Repeat step 4 throught 6 until i <= sum

Step 5. sum = sum + (i * i)

Step 6. i = i + 1

Step 7. Print the sum of saquare

Step 8. Stop

[end of loop step 4]

[end of sum of saquare procedure]

Ans-to-the-Q-NO-3

Identify and categorize various entities of ULAB Moodle is given below.

Software = Google

Hardware = Computers, Mobile phone

User = All ULAB members

Ans-to-the-Q-NO-4

(A)

if N is 9

(9%2==1) false. Because 9 isn't divide by 2. So, the value of i should be increased to 3. Now (9%3==0) True.

So, print "NO".

(B)

if N is 11

(11 % 2 == 1) false. Because 11 isn't divied by 2. So, the value of i should be increased to 3.

(11 % 3 == 0) false. Because 11 isn't divied by 3. So, the value of i should be increased to 4. But (4 <= sqrt(11)) false. So print "Yes".