

University of Liberal Arts Bangladesh (ULAB) MID TERM EXAMINATION Spring 2020

Course No:	101
Course Name:	CSE

Students Name:	Atia Ibnat
Students ID No:	201012079

Date of examination: 23rd March, 2020	
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Obtained	
Total	

Signature of the Examiner

Department of Computer Science and Engineering University of Liberal Arts Bangladesh Mid Term Examination Semester – Spring 2020

Course Title: Introduction to Computer Studies Course Code: CSE 101 (Sec: 4) Duration: 1:00 Hours

PLEASE ANSWER ALL QUESTIONS.

Total 20 Marks

QUESTION 1 7 marks

Perform the following binary operations:

- **a)** $(1100000)_2 (1011111)_2$
- **b)** ($10111)_2 \div (101)_2$
- c) $(1100)_2 \times (1101)_2$

QUESTION 2 7 marks

Write Short notes on the following topics. Also provide at least one example for each of them:

- a) Egocentric and Exocentric environments
 - b) Quick Response (QR) Code
 - c) Ergonomics

QUESTION 3 4 marks

Identify and categorized various entities of the following Computer Based Systems (CBS) into software, hardware & user.

- a) Facebook
- b) Retail Software

QUESTION 4 2 marks

Write the impacts and applications of computers in education and healthcare.

The answers to the above questions are given below:

Arowers 1.a) 1100000 -1011111 0000001 9 1100 x 1101 1100 1100 1100 1100 1100	b) 101) 10111 (00100)
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2.a) Egocentric and Exocentric environments

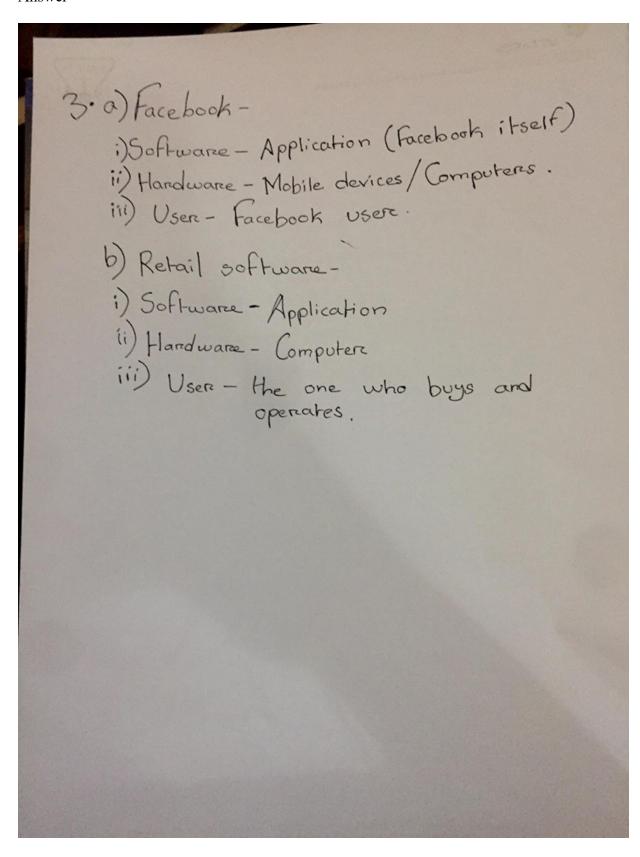
- # Egocentric Hoving control over everything and not being able to distinguish between reight and wrong with the help of technology in a virtual world.

 Example Virtual recality display
- * Exocentric Unlike egocentric environment,
 Usera does not have full control in
 a 31) view and cannot interact.

 Example 3D sunglasses
- b) Quick Response (QR) (orde a tag
 with square patterns in black and
 white to locate webs.

 Example QR code to find preaple an
 information about products.
- c) Engonomics arrangements to make objects/machines friendly to users.

 Example a workplace providing computers that fundion in the user's preference with comfontable desks



4. Education:

With the help of computers we can access Grougle Classroom which is a website that provides necessary lectures and information; from anywhere.

Healthcare.

Ultrasonograms use computers to identify any foreign object in a patient example-tumours.