

MID TERM EXAMINATION
Spring 2020

Course No:	CSE 101 (Sec: 4)
Course Title:	Introduction to Computer Studies

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Date of examination:	23.03.2020
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Obtained	24
Total	25

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**Signature of the
Examiner**

Answers

$$\begin{array}{r} 1.a) \ 11000000 \\ - \ 10111111 \\ \hline 00000001 \end{array}$$

$$\begin{array}{r} c) \ 1100 \\ \times \ 1101 \\ \hline 1100 \\ 0000x \\ 1100x \\ 1100x \\ \hline 10011100 \end{array}$$

$$\begin{array}{r} b) \ 101 \overline{) 10111(00100} \\ \underline{-0} \\ 10 \\ \underline{-0} \\ 101 \\ \underline{-101} \\ 01 \\ \underline{0} \\ 11 \\ \underline{-0} \\ 011 \end{array}$$

2.a) Egocentric and Exocentric environments

* Egocentric - Having control over everything and not being able to distinguish between right and wrong with the help of technology in a virtual world.

Example - Virtual reality display

* Exocentric - Unlike egocentric environment, user does not have full control in a 3D view and cannot interact.

Example - 3D sunglasses

b) Quick Response (QR) Code - a tag with square patterns in black and white to locate webs.

Example - QR code to find people or information about products.

c) Ergonomics - arrangements to make objects/machines friendly to users.

Example - a workplace providing computers that function in the user's preference with comfortable desks

3. a) Facebook -

- i) Software - Application (Facebook itself)
- ii) Hardware - Mobile devices / Computers.
- iii) User - Facebook user.

b) Retail software -

- i) Software - Application
- ii) Hardware - Computers
- iii) User - The one who buys and operates.

4. Education:

With the help of computers we can access Google 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.