University of Liberal Arts Bangladesh (ULAB)



FINAL EXAMINATION Spring 2020

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

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| Obtained | 22 |
|----------|----|
| Total | 25 |

Signature of the Examiner

#TASK 1

to a large number of people around the world. Also helps us to create friend from different country.

The computers in military have been designed to do a lot more me complex or hand calculations or work. In infelligence, super computers much needed so that I get can handle smart or complex works such as weapons management or other military works.

Abaus: Abaus is known as the first mechanical calculating device.

Addition and subtraction can easily be done by this.

9t's also called as counting frame. 9t used to be in use in mostly in Europe, China and Russia. The exact origin of Abacus is still whenown.

W Alt Air 8800: Alt Air 8800 was the beginning of personal computer. 9t was a micro-computer designed in 1974

The Macintosh: The Macintosh was the first personal compu

first personal computer feachning with amouse and a graphical user infertace (GUI). It also introduced us to icons.

TASK 3

(a)
$$(DEAD)_{16} = (????)_{8}$$

$$A = 10$$

$$B = 11$$

$$C = 12$$

$$13 \times 16^{3} = 53248$$

$$14 \times 16^{2} = 3584$$

$$10 \times 16^{1} = 16$$

$$13 \times 16^{6} = 13$$

5 71 11 1 16 B

TASK 3

(a)
$$(DEAD)_{16} = (????)_{8}$$
 $D = 11$
 $C = 12$
 $D = 13$
 $E = 14$

$$(12)_{10} = 212 - 0$$

$$216 - 0$$

$$213 - 1$$

$$(0.34)_{10} = 0.34 \times 2 = 0.68 - 0$$

$$0.68 \times 2 = 1.36 - 1$$

$$0.36 \times 2 = 0.72 - 0$$

$$0.72 \times 2 = 1.44 - 1$$

$$0.44 \times 2 = 0.88 - 0$$

$$0.88 \times 2 = 1.76 - 1$$

$$0.76 \times 2 = 1.52 - 1$$

$$0.52 \times 2 \times 1.04 - 1$$

$$0.04 \times 2 = 0.08 - 0$$

$$0.08 \times 2 = 0.16 - 0$$

$$0.16 \times 2 = 0.32 - 0$$

$$0.16 \times 2 = 0.32 - 0$$

$$0.32 \times 2 = 0.64 - 0$$

(a)
$$(1001)_2 + (1011)_2 \longrightarrow (10100)_2 + m/$$

$$\frac{10001}{10100}$$

W Engonomics: Ergonomics is a field of Study that aftempts to reduce Strain, fotique, and injuries by improving product des ign and workespace arrangement. Many people spends hours in from of a computer without thinking about the impact of their bodoes. They physically stress their bodies daily without realizing it. It can cause back pain as well as serious ballebone pain. g would suggest people to take negular break and eorganomics execusive to prevent Ropetitive Strain Injury (RSI).

TASK 6

- @ Egocontruc Environment: First presson vision
 where the user is immersed
 in the visual scenario
 - Example: Using a VR Heidset
- Example: Prajectors or cinema hall.
- Dr Pull technology refers to clients that make request to server. Example: A web browse request a web page
- w Push technology refers to servers that initial information updales to clients.

 Example: Mobile APP Notifications or instant messages that typically pushed to clients.

Software as a Service (Saas):

Software as a Service (Saas) allows

Users to connect to and us cloud

-based apps over the infernet. Saas

provide complete software solution which

you purchase on a pay-as-you-go basis from

a Cloud service provider.

Example: Microsof office 365, Avast Antivirus.

Nirtual Reality: Virtual Reality is a simulated experience that can be similar to or completely different from real world.

Example: taking real world simulation garing through VR headset.