University of Liberal Arts Bangladesh (ULAB)

MID TERM EXAMINATION
Spring 2020

Course No:	CSE 101 (Sec: 6)
Course Title:	Introduction to Computer Studies

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Obtained	21
Total	25

Signature of the Examiner

Aus 1

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

```
  1100000
(-) 1011111
    10000
 0000001
```

Ans. $0000001 = 1$

b) $(10111)_2 \div (101)$

```
101 / 10111 / 00100
      101
      011
```

Ans. 100

Remainder : 011

c) $(1100)_2 \times (1101)_2$

```
    1100
  × 1101
  ───────
    1100x
   0000xx
  1100xxx
 1100xxxx
 ─────────
010011100
```

Ans: 010011101

Q.2

a) Pull technology refers to clients that make ~~sure~~ requests to server. One example is requesting information, and downloading web pages via a Web browser.

Push technology refers to servers that initiate information updates to clients. ~~In this Example, getting would is also fu~~ Example, some online auction websites which push updates bid price information in real time.
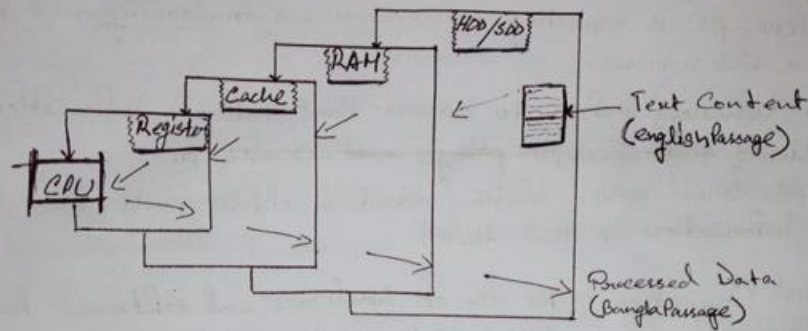
b) Cloud Computing is the use of hardware and software to deliver a service over a network. With cloud computing users can access files and use applications from any device that can access the Internet. An example of a cloud Computing provider is Google's Gmail.

c) Impact printers involves the image produced with the help of electromechanical impact device. The printing is done by ~~hammer~~ hammering a set of metal pin on character set. Example, ~~Inkjet~~ Dot matrix or line printers.

Non-impact printers involves no electromechanical device where it prints by depositing ink in any form. And, it works silently. Example, inkjet or laser printers.

Ans 3

The software reads the text file from HDD/SDD. Then it is read by the RAM, Cache memory and then to the register. Where it is executed then send it to the CPU to process the data (text) and translate to Bangla. Where the data is processed back to the HDD/SDD, file named (bangla passage).

Ans: 4

The purpose of health IT is to provide better care for patients and help achieve health equity. Health IT supports recording of patient data to improve healthcare delivery and allow for analysis of this information for both healthcare practitioners and ministry of health/government agencies. Health IT improves the quality of healthcare delivery, increase patient safety, decrease medical errors, and strengths the interaction between patients and healthcare providers. Computers are Playing an important role in the information age. They deeply impact in the area of education to improve the quality of learning as well as teaching. Various resources and technologies have been used to improve the quality of the eduction system.