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- Prof. Dr. En
- Md. Khalil i
- Mohamma
- Raihan Kha

The emergency n
[raihan.ce08@gmail](mailto:raihan.ce08@gmail.com)

University of Dhaka
Affiliated Engineering Colleges
Department of Computer Science and Engineering
1st Year 1st Semester B.Sc. Examination, 2020
CSE-1101: Fundamentals of Computers and Computing

Total Marks: 70 Time: 02 Hours
Answer any 3 (Three) of the following Questions

- | | | | |
|----|----|---|------|
| 1. | a) | Mention relationship between computer hardware and software. | 05 |
| | b) | Define Operating System. Describe the objectives of Operating System. | 05 |
| | c) | Discuss the features of a Microprocessor. | 08 |
| | d) | Write short note on computer generations. | 5.33 |
| 2. | a) | What is IP address? Explain it with examples. | 05 |
| | b) | Describe the MAC address. | 08 |
| | c) | Write down the ranges of Classful IP addresses in binary notation and dotted decimal notation. Explain it briefly. | 3.33 |
| | d) | Discuss the role of DNS. | 07 |
| 3. | a) | What is exactly a web browser? What are the purposes of it? List five recently best ranked web browsers. | 04 |
| | b) | What is Email Client? Write down the name of five email client software. | 3.33 |
| | c) | What does www mean? Explain it briefly. | 06 |
| | d) | Briefly discuss about Cache memory. | 08 |
| | e) | What does URL (Uniform Resource Locator) mean? | 02 |
| 4. | a) | Convert 2TB to Kilobyte. | 03 |
| | b) | Discuss the working principle of a RAM memory. What are the differences between RAM and ROM? | 10 |
| | c) | Sketch a memory hierarchy based on capacity, access time, cost per bit, and performance of the following memories: Optical disk, CPU register, SRAM, Magnetic disk, and DRAM. Explain the memory hierarchy. | 4.33 |
| | d) | Define file and file system. Explain different types of files. | 06 |
| 5. | a) | Write the program structure in C. Explain it briefly. | 06 |
| | b) | How do you identify variables and constants? Give suitable examples. | 03 |
| | c) | How do you write an <i>if</i> statement in C? Explain it. | 03 |
| | d) | What is <i>nested if</i> statement in C? Explain its best use during computer programming. | 04 |
| | e) | Briefly discuss about C fundamental data types. | 7.33 |