Bangabandhu Sheikh Mujibur Rahman Science and Technology University
Department of Computer Science and Engineering
1st Year 1st Semester B.Sc. Engineering Examination-2014
Course No: CSE-100   Course Title: Computer Fundamentals
Total marks: 70   Time: 3 hours.

N.B.
i.   Answer **SIX** questions, taking any **THREE** from each section.
ii. All questions are of equal values
iii. Use separate answer script for each section

SECTION – A

1. (a) Write about evolution of computer in different time frame?   4
   (b) What is protocol? Why protocol is needed for communications? $3\frac{2}{3}$
   (c) Describe IP address? Why IP address is needed?   4

2. (a) What are the differences between RAM and ROM? $3\frac{2}{3}$
   (b) How many kilobytes make a terabyte? How does a cache memory play role in speeding up your PC's operation?   4
   (c) Describe computer software. What are the relations among Hardware, BIOS, Operating System, Application Program and User?   4

3. (a) What will you check if you have to buy a computer? Justify your preference.   4
   (b) Why number systems are needed? Describe addition in 8 based number system with example?   4
   (c) What is "Internet" and "Intranet"? List eight major services provided by Internet. $3\frac{2}{3}$

4. (a) Write down parts of a laser printer. Describe function of each part.   4
   (b) What do you mean by compiler and interpreter? Differentiate between them. $3\frac{2}{3}$
   (c) In impact printer which one is best and why justify your answer?   4

SECTION – B

5. (a) What is magnetic memory? Why hard disc are divided into cylinder, track and sector?   4
   (b) What is the difference between LAN and WAN? $3\frac{2}{3}$
   (c) Write about information and data. Why DBMS is needed?   4

6. (a) What basic operations are performed by operating system?   4
   (b) What difficulties you have to face, if there is an absence of Operating system in a computer? $3\frac{2}{3}$
   (c) What are the types of computer from different point of view? Describe them briefly.   4

7. (a) What is computer virus? What do viruses do? What are the circumstances to prevent computer viruses?   4
   (b) Describe keyboard with proper diagram. Why the keys of a keyboard are not in sequential fashion. $3\frac{2}{3}$
   (c) Write down working principle of an optical mouse.   4

8. (a) Describe Process Management with proper diagram. Why process management is needed?   4
   (b) What are networking devices? Describe functions of each network devices. $3\frac{2}{3}$
   (c) Describe topology. Which topology is the best one and why?   4