Federal Board SSC-I (2009)
COMPUTER HARDWARE
SECTION-A (Marks 08)

Q1. Insert the correct option i.e. A/B/C/D in the empty box provided opposite each part. Each part carries one mark.

(i) In SI system the unit of electric current is_____

A. Joule   B. Farad
C. Ampere   D. Columb

(ii) In resistor the fourth band represents_____.

A. Tolerance   B. Reliability
C. Decimal multiplier   D. None of these

(iii) When diode is Forward Biased, its resistance becomes_____

A. Low   B. High
C. Sometime high and sometime low
D. None of these

(iv) CMOS stands for_____.

A. Complimentary Metal Oxide Semiconductor
B. Complete Metal Oxide Semiconductor
C. Complimentary Metal Oxide System
D. Complimentary Metal Oxide Software

(v) In Hexadecimal system 'F' represents number_____.

A. 14   B. 15   C. 16   D. 10

(vi) Usually the memory of computer is divided into two types called_____

A. RAM and ROM
B. Primary and Secondary memory
C. SRAM and DRAM
D. PROM and RAM

(vii) Which of the following command is used to make sectors and threads in Hard Disks?

A. Command Com   B. CLS
C. Save   D. Format

(viii) How many bytes are there in one Kilobyte?

A. 4024   B. 1024
C. 2024   D. 3024

SECTION - B (Marks 18)

Q2. Attempt any SIX parts. The answer to each part should not exceed 3 to 4 lines.   (6 × 3 = 18)

(i) What is the difference between Conductor, Insulator and Semi-Conductor?

(ii) Explain the effect of AC and DC source on Capacitor.

(iii) Write a short note on Diode.

(iv) Explain XOR gate with the help of symbol and truth table.

(v) What is the function of the Disk Defragementation in computer?

(vi) Write a short note on POST?

(vii) Mouse is an input device. Why? Explain.

(viii) How does a colour display work? Write briefly.

SECTION-C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks.(2×7=14)

Q3. a. Briefly explain the types of fix capacitors.   04

b. If there is 10 volts potential difference between the two plates of a capacitor and its capacitance is $6\mu F$. Then find out the charge stored on the plates.   03

Q4. a. Explain the difference between RAM and ROM?   04

b. Convert $(111101)_2$ in decimal and $(128)_{10}$ in binary number system.   03

Q5. a. Define virus. Also explain any three types of virus.   04

b. Define regular polygon. Also define and draw two types of regular polygon.   03