

# Federal Board SSC-I (2010)

## COMPUTER HARDWARE

### SECTION-A (Marks 08)

**Q1.** Circle the correct option i.e. A/B/C/D. Each part carries one mark.

(i) What in a transistor is always reverse biased with respect to Base?

- A. Emitter.
- B. Collector
- C. Emitter and Collector
- D. None of these

(ii)  $(AAA)_{16}$  is equal to decimal of \_\_\_\_\_

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- A. 2370
  - B. 2380
  - C. 2730
  - D. 2780

(iii) Floppy disk is an example of \_\_\_\_\_

- A. Offline memory
- B. Online memory
- C. Temporary memory
- D. None of these

(iv) What is an angle which is greater than  $180^\circ$ ?

- A. Obtuse angle
- B. Complement angle
- C. Reflex angle
- D. Adjacent angle

(v) What does CPU stand for?

- A. Central Processing Unit
- B. Control Processing Unit
- C. Central Programming Unit
- D. Control Programming Unit

(vi) What is code of WHITE colour in Resistor colour coding?

- A. 8
- B. 6
- C. 4
- D. 9

(vii) Formula for power calculation is \_\_\_\_\_

- A.  $P = I^2/R$
- B.  $P = V^2R$
- C.  $P = W \times t$
- D.  $P = V^2/R$

(viii) What is called the rate of flow of electric charge?

- A. Electric Potential
- B. Power
- C. Current
- D. None of these

### SECTION - B (Marks 18)

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

(i) Which devices are used to take hard copy output and softy copy output?

(ii) How many bits are in 10kB, 2MB, and 710 Bytes memory?

(iii) Write briefly about Voltage Amplifier. Also draw a diagram.

(iv) Write a short note on Mouse and its functions.

(v) Write down any three advantages of backup.

(vi) Write briefly about Non-volatile Memory.

(vii) Write any three types of fix Capacitors.

(viii) List any three Conductor and three Insulator materials.

### SECTION-C (Marks 14)

**Note:** Attempt any TWO questions. All questions carry equal marks.  $(2 \times 7 = 14)$

**Q3. a.** Explain Ohm's Law with examples. 04

**b.** What do you know about computer virus? List its types. 03

**Q4. a.** What is the difference between the 1st generation and 3rd generation computer? 04

**b.** Describe any three tools, which are used to make electrical drawing. 03

**Q5.** Describe NOR and XNOR gates with the help of Truth table and symbol in detail. 07