

Name: _____					
<b>Subject:</b> Computer		<b>Class:</b> 9 <sup>th</sup>	<b>Time:</b> 80 minutes	<b>Total Marks:</b>	<b>40</b>
<b>Chapter No.2</b>		<b>MJDexpert.com</b>			Obtained marks

**Note:** Please attempt any 10 short questions from Question 2. Also, attempt both parts of Question 3. Cutting and removal of any content is strictly prohibited.

### Objective Section

#### Question #1: Select the Correct Option (1 × 12 = 12)

- A truth table is used to find out if a statement is:  
A) True B) False C) Either A or B D) None of these
- The binary equivalent of the number "17" is:  
A) 10000 B) 10110 C) 10001 D) 10100
- The expression (A+B).(A+C) simplifies to:  
A) A + (B.C) B) A.B + A.C C) A.(B.C) D) A + (B+C)
- A petabyte is equivalent to:  
A) (1024)<sup>4</sup> Bytes B) (1024)<sup>6</sup> Bytes C) (1024)<sup>5</sup> Bytes D) (1024)<sup>7</sup> Bytes
- According to which law does changing the order of operations not affect the result?  
A) Associative law B) Commutative law C) Distributive law D) Identity law
- In primary and secondary storage, data is saved in the form of:  
A) Bits B) Bytes C) Both A and B D) None of these
- The hexadecimal system consists of how many numbers?  
A) 16 B) 15 C) 17 D) 18
- What term is used to combine multiple propositions into a single one?  
A) Boolean proposition B) Moral proposition C) Compound proposition D) None of these
- At least how many bytes are needed to store information in a computer's memory?  
A) 1 B) 2 C) 3 D) 4
- The statement "It is cold outside" is an example of:  
A) Boolean proposition B) Moral proposition C) Both A and B D) None of these
- Data is fed into the processor through:  
A) RAM B) ROM C) Bytes D) None of these
- In which law does the order of applying terms not matter?  
A) Associative law B) Commutative law C) Distributive law D) Identity law

### Subjective Section

#### Question #2: Answer the Following Short Questions (10 × 2 = 20)

- What is the difference between a bit and a byte?
- Define a number system.
- Explain how to convert hexadecimal numbers to binary.
- What are truth values?
- Differentiate between temporary and permanent storage devices.
- What is a truth table?
- Draw a truth table for the NOT operator.
- Define the terms "Quotient" and "Remainder."
- What distinguishes volatile memory from non-volatile memory?
- Define storage devices.

#### Question #3: Answer the Following Long Questions (4 × 2 = 8)

- Convert the binary number (11000001)<sub>2</sub> to hexadecimal.
- Define logical operators and explain their different types.