

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION 2025-26**  
**ASSIGNMENT-1**

**Class: VII**

**Subject: Artificial Intelligence**

**1. Multiple choice questions: -**

1. The decimal number system consists of \_\_\_\_\_.  
a) 2                                      b) 10                                      c) 16
2. Which method is used to convert a binary number into a decimal number?  
a) Division                              b) Multiplication                              c) Addition
3. A computer understands only \_\_\_\_\_ language.  
a) Human                              b) Machine                              c) None of these

**2. Fill in the Blanks**

1. In the binary number system, digits can only be \_\_\_\_\_ or \_\_\_\_\_.
2. The decimal number 15 in binary is \_\_\_\_\_.
3. The hexadecimal number system uses \_\_\_\_\_ symbols.

**3. Short Answer Questions (5 marks)**

1. What is a binary system? What is the base of the binary and decimal number system?
2. Convert the binary into decimal number  
a) 01110                              b) 1101