

UNIT-V

- 9 a The IEEE provides a standard 32-bit format for floating point numbers. The format for a number is specified as $\pm 1.M \times 2^E - 127$. Explain each part of this format. L2 6M
- b Explain the procedure for adding two numbers in 2's complement form. As an example, convert +38 and -24 to 8-bit 2's complement form and add them. L2 6M

OR

- 10 a Convert the following decimal numbers into BCD and calculate the value by adding them: 24 and 37. L2 6M
- b Calculate the result by performing addition of the following two floating point numbers and round the result to five places of precision. L3 6M
- i) $05199520 + 04967850$ ii) $625.2035 + 25.7585$ iii) $1024.775E2 + 512.225E0$

*** END ***