

Q1. What are positional number systems? Explain with an example. [3]

Q2. Define: i. Number System ii. Radix. [2]

Q3. Convert :

i. $(31.062)_{10} \rightarrow (?)_2$ [3]

ii. $(110.45)_{10} \rightarrow (?)_{16}$ [3]

iii. $(517.65)_8 \rightarrow (?)_{10}$ [3]

iv. $(FACE.48)_{16} \rightarrow (?)_8$ [2]

v. $(1100111101.10111110011)_2 \rightarrow (?)_{16}$ [2]

vi. $(7604.523)_8 \rightarrow (?)_2$ [2]

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