Figure a shows the relationship between bitrate (kb/s) and PSNR (dB) for different algorithms: JSVM, Shen's Algorithm, and Proposed. As the bitrate increases, the PSNR also increases. Figure b illustrates the encoding time (ms) as a function of bitrate (kb/s) for the same algorithms. The encoding time also increases with bitrate, with the Proposed algorithm generally showing the lowest times. 