g) A frame size of a full colored video is 800 by 600. It is recorded with a 2-channel quality audio at a frequency of 44.1Hz. Calculate the size of the uncompressed video file recorded for 3 minutes. (6 mks)

***Solution***

* Bitrates (Mbps) / bits \* duration(s)

Bit rates = frequency \* bit depth \* channel

(44.1 \* 16 \* 2)

= 1, 411.2 kbps

Uncompressed video = 1411.2 / 8 \* 3(60)

= 31, 752 Mb

= 31, 752 / 1024

= 31.01 Gb