Name: ..... Due: **Next Class / Friday**

C3 Mixers & DAWs HW 3 – Gorillaz 'Clint Eastwood' & In-The-Box DAW Production

Artist: Gorillaz (Gorillaz, 2001, Producers: Dan the Automator & Damon Albarn)
https://www.youtube.com/watch?v=1V_xRb0x9aw

1. "Clint Eastwood" integrated digital DAW sampling, rap vocals, and melodica. Identify the production components below. (3)

Track Element	Source & Digital DAW Treatment
Drum Loop & Bassline	Preset rock beat from Suzuki Omnichord OM-300 electronic instrument
Rap Vocals (Del the Funky Homosapien)	Non-linear comping in Pro Tools, close condenser mic, EQ shelf boost
Melodica Solo (Damon Albarn)	
Dub Delay FX & Spoken Echoes	

2. Explain the difference between destructive editing (as found on analogue magnetic tape) and non-destructive editing in a modern Digital Audio Workstation. (3)

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3. What is audio take comping, and how do crossfades prevent audible artifacts at edit seams between spliced regions? (3)

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4. Explain the Nyquist-Shannon Sampling Theorem and why an anti-aliasing low-pass filter must precede the analog-to-digital converter. (3)

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5. Audio Buffer Size & Latency: Explain why an engineer chooses a low buffer size (e.g. 64-128 samples) during tracking, but increases it (e.g. 512-1024 samples) during mixing. (3)

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6. In-The-Box (ITB) Mixing vs Hybrid Analog Summing: compare the two mixing workflows below: (4)

In-The-Box (ITB) Digital Mixing Workflow & Advantages (2)
Summing math, total instantaneous recall, zero generation loss, and unlimited plugin instances:
Hybrid Analog Summing Workflow & Characteristics (2)
Multi-channel D/A stems, analog resistor/transformer summing bus, and harmonic saturation:

Total:	**/18**