

Start here.

Question 28

- a) i) Interactivity is the ability for the user to select the path in which the multimedia content is viewed. It responds to user's requests
- ii) Linear storyboards require the multimedia content to be viewed/presented in a specific order, whereas non-linear storyboards have the ability to change the order of content viewed.
- b) i) Characteristics of file formats that allow embedding into web pages include small file sizes, effective compression, & ability to store audio & video
- ii) Path based animation sets a start & end point for an object, & the software creates the inbetween frames. It is suitable for smooth, ~~or~~ noncomplex motions.
Cell based animation requires all frames to be manually drawn in, allowing for more control. It is suitable when complex motions need to be created.
- c) i) The need for compression is important as there are many large files (audio & video) involved in this game to be stored on the storage medium.

The storage medium is usually not large enough for raw uncompressed file sizes.

ii) The collecting process occurs when the participant stands on the balance board and alters their movements. This data is collected using a variety of sensors such as accelerometers.

The displaying process occurs when the movements of the virtual character are calculated and displayed on the monitor. ~~The~~ The information displayed is a visual image of the character skiing, & ~~the~~ involves audio to assist in the virtual reality.

~~The~~ iii) A future use of this technology could be used in ~~the~~ virtual walkthroughs of house designs/buildings. This will allow the participant to have better control & feeling of the virtual world, especially when used with future technologies such as a head-up display or holographic projections. The participant may also be able to interact with other participants using ~~physical~~ physical movements and be able to view other participants.

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physical movements. This use in virtual worlds
may also be able to assist doctors control
~~now to nano-robot~~ nano-robots within ~~patients~~
patients

