

Week – 8 Answers

1. is/are used by different digital human modeling software for posture and motion prediction.

Answer: All of the above mentioned techniques.

2. Which of the following is not a reason for less adoption of DHM technology in developing countries?

Answer: None of the above.

3. Integration of features of digital human modeling in 3D CAD software may lead to _____.

Answer: Elimination of file conversion and export/import of files.

4. Subjective evaluations for product and workstation design by currently digital human modeling software.

Answer: Cannot be performed.

5. ‘Multivariate statistical approach e.g. Principal Component Analysis (PCA) is used to generate manikin forms based on important “large-small” body dimension combinations’. This manikin families developed based on such multivariate statistical analysis of anthropometric data, is known as.....

Answer: Boundary manikin families.

6. From literature survey, it is found that majority of DHM applications in agricultural sector are limited to agricultural _____ only.

Answer: Vehicles.

7. The use of Digital Human Modeling technology is still instages in majority of the developing countries.

Answer: Preliminary/ nascent.

8. ‘In case of RAMSIS digital human modeling software, physiological model is capable of predicting the heart rate and ventilation rate’ ----the statement is

Answer: Incorrect.

9. Simultaneous analysis of activities of multiple manikins is..... by most of the presently available DHM software.

Answer: Never possible.

10. ‘Accuracy not only differs between real human subject and manikin but also among the manikins generated by different software’ - the statement is

Answer: Correct.