



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School : School of Engineering **Program:** M. Tech. (Digital Manufacturing)

Course: Ergonomic Simulation & Analysis

Course Code: DMA602

Semester: III

Max Marks: 50

Duration (mins) : 120 min

Note : 1. Figures to the right indicates full marks.

2. Solve any Five of the following

Q 1. Draw the layout of driver cabin for any two vehicles using ergonomic and anthropometric considerations. (10 M)

Q 2. Write in brief about “Realistic Male and Female Human Figures”. (10 M)

Q 3. Explain the roll of Ergonomics Task Simulation for reduction of injuries and risks of humans. (10 M)

Q 4. Write a short note on,

a) Upper Limb Assessment

b) Low Back Assessment

(10 M)

Q 5. With neat sketch explain any two types of posture analysis. (10 M)

Q.6. Enlist Motion Capturing systems used for human application, and explain any one in brief. (10 M)

Q.7. What is the importance of biometric analysis? Justify your answer with suitable examples. (10 M)