



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

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

Course: Industry Automation & Advanced Robotics Simulations **Course Code:** DMA601

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. Explain Different Material handling Robots with neat sketch. (10 M)
- Q 2. Enlist and explain in brief Basic Robot configuration. (10 M)
- Q 3. Write short note on a) Robot Reach Test, b) Robot Collision analysis. (10 M)
- Q 4. Explain in details sensors and control Devices used for Virtual commissioning and validation in robots (10 M)
- Q 5. Write short note on a) Prismatic Machining, b) Axial and Auxiliary Machining. (10 M)
- Q.6. Write note on Wire-cut Programming Simulation (10 M)
- Q.7. Compare Mill-Turn Twin Turret & Twin Spindle Machining, (10 M)