



Dnyaneshwar Vidyapeeth (Trust)

CENTRAL EXAMINATION BOARD

ASSIGNMENT OF FLUID MACHINERY

SUB -CODE- (MCH-G710) COURSE: ADVANCED TECH-QUIC PROGRAM
ASSIGNMENT NO. 1 (Assignment Based on Topic No. 1,2,3)

SESSION - WINTER
BRANCH - MECH

Q.1 Answer the following (Questions for 2 marks)

- 1) What is a fluid machine?
- 2) State Pascal's law
- 3) List the different water wheels

Q.2 Answer the following (Questions for 4 marks)

- 1) A jet of water 25 mm diameter strikes a flat plate normally at 30m/s at a point 150 mm below the top of the plate. What force should be applied, 100 mm below the axis, if jet to keep the plate vertical?
- 2) Explain the working of overshot water wheel with the help of a neat sketch
- 3) Give the advantages and disadvantages of a water wheel
- 4) Write a short note on ' Turbo Turbine '
- 5) Describe breast water wheel with the help of a neat sketch
- 6) Explain Girard turbine
- 7) Differentiate between overshot water wheel and undershot water wheel
- 8) Give the classification of the water wheel
- 9) Describe the working of Banki Turbine
- 10) Describe the working of undershot water wheel with a neat sketch

Q.3 Answer the following (Questions for 8 marks)

- 1) Derive the expression for the force of jet impinging on the moving plate
- 2) What do you understand by the term 'jet' of water? Derive the expression for force of jet on a fixed plate?

GROWTH UNTO INFINITE