HYDRAULICS AND PNEUMATIC CONTROL (Code: AET-402)

HYDRAULICS AND (Code: AET-402)	Time: 3 hours
Full Marks: 80 Answer any five questions including Q.Nos.1 & 2 Figures in the right-hand margin indicate marks	2 × 10
1. Answer all the questions:	
1. Answer all the quality (a) Define ideal fluid.	
(b) Define viscosity.	
(c) Define surface tension.	
- Define leminar flow.	
(e) Define steady and unsteady flow.	
(f) Define actuator.	
(g) Define seals and gaskets.	
(b) Define specific gravity.	
Define coefficient of velocity.	
(f) Define function of hydraulic ram.	5×6
2. Answer any six questions:	
2. Answer any six questions. (a) Explain the Bernoulli's theorem and its application.	
= 1 is the law of continuity and its application.	
(c) Explain the relation between the hydraulic coefficient	
(d) Explain the different types of fluid flow.	
(e) Explain the construction and working of centrifugal pump.	
(f) Explain the construction and working of directional control valve.	
(g) Explain the simple pneumatic circuit used for air brake.	10
Explain the function of different types of manometers with sketch.	
Explain the function and operation of venturimeter with neat sketch.	10
Explain the working principles, construction and application of hydraulic jack.	. 10
Explain the construction and working of hydraulic motors.	10
Explain the function and operation of Pneumatic power tools.	10

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