Q.22 What do you mean by directional control of hydraulic cylinder? (CO5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (8x2=16)

Q.23 Explain the sequencing operation of two hydraulic cylinders in brief. (CO5)

Q.24 Discuss about applications of fluid power systems. (CO1)

Q.25 Explain working of different types of special valves. (CO3)

(**Note:** Course outcome/CO is for office use only)

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4th Sem. / Automation & Robotics

Subject : Fluid Power Systems

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 What pumps hydraulic oil to the hydraulic circuit? (CO2)

a) Flow control valve b) Oil reservoir

c) Rotatory pumps d) Pressure gauge

Q.2 In which type of system does power transmission takes place through compressed air? (CO2)

a) Fluid power system

b) Hydraulic system

c) Pneumatic system

d) Stepper motors

Q.3 The compressed air flows to the actuator through _____ (CO4)

a) Pipes and valves b) shafts

c) motors d) flow control valve

Q.4 Litre per second is the unit of (CO1)

a) Force b) Flow

c) Power d) Energy

Q.5 Joule is the unit of (CO1)

a) Force b) flow

c) power d) energy

Q.6 The total work done is called (CO1)

a) energy b) work

c) power d) torque

SECTION-B

Note: Objective type questions. All questions are compulsory. (6x1=6)

Q.7 Define temperature. (CO1)

Q.8 Define torque. (CO1)

Q.9 Define control valve. (CO4)

Q.10 Define automation. (CO3)

Q.11 Define actuator. (CO4)

Q.12 Define pneumatic system. (CO1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Discuss pascal laws. (CO1)

Q.14 What do you mean by characteristics of Industrial Prime Movers? (CO1)

Q.15 Discuss about types of working fluids in brief. (CO2)

Q.16 How the air compressor works? (CO2)

Q.17 Explain the working of spool valve. (CO3)

Q.18 Explain the functioning flow control valve. (CO3)

Q.19 What do you mean by shuttle valve? (CO3)

Q.20 Discuss the need of actuator. (CO4)

Q.21 Explain the need of mounting arrangement and seals. (CO4)