22349

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3	Ho	ours /	70	Marks	Seat	No.				
	Instri	uctions –	(1)	All Questions are Compulsory.						
			(2)	Illustrate your necessary.	answers	with nea	at sketc	ches w	here	ver
			(3)	Figures to the	right ind	icate fu	ll mark	s.		
			(4)	Assume suitab	ole data, i	f necess	ary.			
			(5)	Mobile Phone Communicatio Examination I	n devices	•				
									Ι	Marks
1.		Attempt	any	<u>FIVE</u> of the	following	:				10
	a) List the essential component of Hydrualic system. (any four					ur)				
	b)	State the	fun	ctions of seals	and gask	ets.				
	c)	Draw the	e syr	nbol of FRL u	init used i	n pneur	natic ci	rcuit.		
d) State one app			e app	blication of each meter in and meter out circuit.						
e) Differentiate			iate	strainer with filter.						
f) Draw the syn			e syr	nbol of air motor and air pump.						
	g)	State the	app	lication of hyd	lropnuemat	tic syste	m.			
2.				THREE of t	he followi	ng:				12
				bel a neat sketch of layout of Hydrualic system.						
	b)	Define v	viscos	ity and surface	e tension.					
	c)	2		r fault and the sing machine.	ir remedie	es in hyd	draulic	circuit	for	

d) Classify fluids and define three fluids.

3.

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- (ii) 4/2 D.C. valve
- (iii) Filter
- (iv) Pnuematic pump
- d) Select suitable pnuematic circuit for blow moulding machine.
- e) Explain a meter out hydrualic circuit.

5. Attempt any TWO of the following:

- 12
- a) Suggest causes and remedies for fault in pnuematic system.
- b) Explain with neat sketch 4/2 direction control valve used in hydualic circuit.
- Explain hydraulic circuit used in compression moulding machine c) along with its sketch.

Marks

6. Attempt any TWO of the following:

- a) (i) List the different accessories used in pnuematic system.
 - (ii) Classify actuators
- b) Describe maintenance of pipe fitting in pneumatic system with precautions to be taken.
- c) (i) Identify the following circuit in Figure No. 1

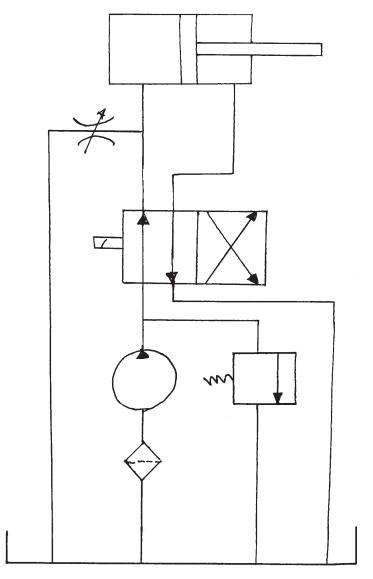


Fig. No. 1

- (ii) Label it and explain its working.
- (iii) State its applications.

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