Roll No. Total No. of Pages: 02  Total No. of Questions: 09  B.Tech.(AE) (2011 Onwards) (Sem7,8)  HYDRAULIC & PNEUMATICS SYSTEM FOR AUTOMOBILE  Subject Code: BTAE-701  Paper ID: [A2932]							
Time: 3 Hrs. 51 51 51 Max. Marks: 60							
<ol> <li>SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.</li> <li>SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.</li> <li>SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.</li> </ol>							
				SECTION	<b>N-A</b> 51		
1.	Write	briefly:					
	a) W	hat is a single	acting pump	<b>?</b> 51			
	b) W	hat are differe	ent types of st	rainer?			
	c) W	hat is the fund	etion of direct	tional contro	ol valve?		
	d) W	) What are the elements of hydraulic system for automobiles?					
	e) W	51 51 51 51 51 51 51 51 51 51 51 51 51					
	•	hat are differe		_			
	g) W	hat is meant b	y manual coi	ntrol?			
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	•	hat do you un	51				
	j) W	hat is the fund	tion of solen	oid in pneur	natic system?	•	

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## **SECTION-B**

- 2. Discuss various design considerations for pumps.
- What are different types of control in hydraulic system? Discuss the advantages and disadvantages of hydraulic system.
  - 4. Explain Speed Control Circuit.
  - 5. Discuss the application of pneumatics in engineering.
- 51 6. Differentiate between air motor and hydraulic motor.

## **SECTION-C**

- 7. Explain a four way two position directional control valve with a sketch.
- 8. Describe the sequencing of motion time delay circuit and its application in pneumatic system.
- 9. Explain on off control and derivative control in pneumatic control system.