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Roll No.	L	L						Total No. of Pages: 0)2

Total No. of Questions: 18

B.Tech. (AE) (2012 to 2017) (Sem.-7)

HYDRAULIC & PNEUMATICS SYSTEM FOR AUTOMOBILE

Subject Code : BTAE-701 M.Code : 71817

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

SECTION-A

Write briefly:

- Draw the symbol of reservoirs.
- 2. What is fluid power plumbing requirement?
- 3. List some circuits which can be performed by both pneumatic and hydraulic systems.
- Draw pneumatic symbol of air motor.
- List different types of lubricators used in hydraulic systems.
- Brief about pilot operation.
- 7. What are the elements of pneumatic systems?
- 8. What are applications of pneumatic system?
- Write short note on AC and DC motors.
- Illustrate solenoid operated four-way three position valves.



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SECTION-B

- What are DCV? Explain any two.
- 12. Describe grounded chair representation for material system.
- Illustrate the working of two position spring offset four-way pneumatic valve. 13.
- 14. What is impulse operation? Explain in detail.
- Write note on accumulator and what are its types.

SECTION-C

- Discuss about rules and reduction of block diagram.
- Describe pressure regulating hydraulic circuit.
- 18. a) With the help of neat diagram explain working of double acting cylinder.
 - ayout in pneur Explain the importance of piping layout in pneumatics systems.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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