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BACHELOR OF VOCATION Automotive Manufacturing Subject: Hydraulics and Pneumatics Subject Code: BBME-305 Semester: Fifth September 2020 Theory (External): 35 Marks Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

- 1. Read the questions carefully and write the answers in the answer sheets.
- 2. Wherever necessary, the diagram drawn should be neat and properly labelled.
- 3. This questions paper comprises of 6 questions out of which student need to attempt any 3 questions.
- 4. All questions carry equal marks.
- 5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

- 1. Drive and explain Bernoulli's equation with applications related to manufacturing industries.
- 2. Discuss the working of control valve with neat diagram and applications.
- 3. Describe the Working principle of various components used for hydraulic & pneumatic systems.
- 4. Explain the construction and working of Hydraulic Actuator with neat and clean diagram along with suitable diagram and applications.
- 5. Describe the working of reciprocating air compressor with neat diagram along with suitable applications.
- 6. Describe the Rules/ Norms for designing the hydraulic and pneumatic circuits with examples.

*****END OF PAPER*****