

A

200952

BACHELOR OF VOCATION

Automotive Mechatronics

Subject: Applied Hydraulics and Pneumatics

Subject Code: ABME-202

Semester: Fourth

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 and its applications related to manufacturing industries.
2. Describe the construction and working of control valves with neat diagram along with applications related to industries.
3. Explain the advantages, limitations and applications of hydraulic and pneumatic system related to manufacturing industry.
4. Describe the types and material of hydraulic pipes along with suitable applications.
5. Describe the working of Air motor with neat and clean diagram along with applications related to manufacturing industries.
6. Discuss the parameters required for Piping layout for an Industry with suitable example.

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