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200961

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Internal Combustion Engines
Subject Code: BBME-210
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. Differentiate between Otto, Diesel and Dual cycle with neat and clean diagram.
2. Describe the construction and working of four stroke engine with neat diagram along with applications related to industries.
3. Explain the effect of operating variables with suitable applications and examples.
4. Describe the types of injection systems in CI engine with neat and clean diagram along with applications related to manufacturing industries.
5. Describe the factors affecting knocking and detonation.
6. Explain the working of catalytic convertor with suitable industrial example.

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