



SEARCH VIT QUESTION PAPERS  
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# VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

## SCHOOL OF MECHANICAL ENGINEERING

Continuous Assessment Test – I, August-2019

B. Tech, Fall Semester-2019-20

Class Nbr.	: VL201920100113, VL201920102172, VL201920101252		
Course Code	: MEE1012	Duration	: 90 Minutes.
Course Name	: Alternative Fuels	Max. Marks	: 50
Faculty-In-Charge	: Dr. AKB, Dr. DDWR, Dr. LB	Slot	: F2+TF2

*All Questions are compulsory*

Q. Question (5 X 10 = 50 Marks)

No.

1. What is the need of alternative fuel and also explain about the petroleum resource and reserves in India?
2. Explain the various methods of Hydrogen production from fossil fuel.
3. Describe briefly about the various methods of Hydrogen storage with neat sketches.
4. Define Liquefied Natural Gas (LNG). How the performance and emission characteristics vary when compressed natural gas (CNG) is used as alternative fuel in IC (SI and CI) engines.
5. Illustrate and explain about the various production processes of biogas from biomass.

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