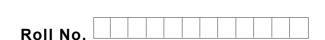


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Total No. of Pages : 02

Total No. of Questions : 18

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B.Tech. (AE) (2012 to 2017) (Sem.-4) AUTOMOTIVE FUELS AND EMISSIONS Subject Code : BTAE-405

M.code:54126

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

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Answer briefly :

- 1. Brief about the need for alternate fuel.
- 2. Define gas chromatograph.
- 3. Write short note on biodiesel.
- 4. Can alcohol be used as fuel? Give reason.
- 5. Give some stationary engine applications.
- 6. What is basic chemistry combustion in 2 stroke SI engine?
- 7. What are water fuel cells?
- 8. Define fumigation.
- 9. What is diesel trap oxidizer?
- 10. Define Catalysts.

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SECTION-B

- 11. What is the scenario of conventional auto fuels?
- 12. Discuss about alternate fuel development worldwide.
- 13. Describe water to gas technology.
- 14. What is effect of operating variables on emission formation?
- 15. Brief about
 - a) Carrier for hydrogen
 - b) Fumigation.

SECTION-C

- 16. Illustrate in detail about test procedure and instrumentation for emission measurement.
- 17. List the types of liquefied petroleum gases. Brief discuss about them.
- 18. What type of design changes can be done for control of engine emission reduction? Explain in detail.

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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