

24414

B. Tech 6th Semester (AUE)

Examination - May, 2018

AUTOMOTIVE POLLUTION AND CONTROL

Paper : AUE-308-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory* and attempt *one* question from each Section.

- 1. (a) What is meant by Global Warming ? 5
- (b) How engine combustion can be measured ? 5
- (c) Give the drawback of catalytic converter system. 5
- (d) How the humidity effects No_x formation ? 5

- 2. Explain the effects of design and operating variables on unburned hydrocarbon emission in an SI engine. 20
- 3. Explain in detail the transient operation of petrol and diesel engines and also write down the effects of it on emission. 20

SECTION - B

- 4. Explain the effect of spray formation, combustion and emission formation in diesel engines. 20
- 5. What are blue, white and black smokes in diesel engines ? Describe the mechanism of black smoke formation. <http://haryanapapers.com> 20

SECTION - C

- 6. Explain the principle, construction and efficiency of 3-way catalytic converter for an SI Engine. 20
- 7. Discuss the engine design modifications required for the control of unburned hydrocarbon emission. 20

SECTION - D

8. Discuss the principle construction and working of light extinction type smoke meter. Also indicate its scale and versatility. 20
9. Write short notes on : 20
- (a) Flame ionization detectors.
- (b) Use of unleaded petrol.

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