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**Reg. No.:**

 **SEMBODAI RUKMANI VARATHARAJAN ENGINEERING COLLEGE**

**ACADEMIC YEAR 2023-2024/ ODD SEMESTER**

**CYCLE TEST – II (OCTOBER - 2023)**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**SUB. CODE/TITLE: CME394/ ADVANCED INTERNAL COMBUSTION ENGINEERING**

**YEAR/SEM : III/ V DATE :**

**DURATION : 2.00 HOURS MAX.MARKS : 50**

**PART – A (5 X 2 = 10)**

**ANSWER ALL THE QUESTIONS.**

1. Why smoke is formed in a CI engine?
2. What are the major exhaust emissions?
3. List out the draw backs of catalytic converters?
4. What are particulate traps?
5. Define crankcase blow by?

**PART – B (4 X 10 = 40)**

**ANSWER ALL THE QUESTIONS.**

1. What are catalytic converters? How are they helping in reducing HC, CO and NOx emissions?
2. What is smoke and classify the measurement of smoke?
3. Give a brief account of emissions from CI engines?

9. Explain various factors influencing smoke production.

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